2001/02 CAPITAL IMPROVEMENT PLAN

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Santa Clara Valley Water District

SAN JOSE, CALIFORNIA

Fiscal Years 2002 and 2003

15-YEAR CAPITAL IMPROVEMENT PLAN

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Santa Clara Valley Water District

We thank all the staff who gave their time to provide information, suggestions, and review. Their contributions were invaluable in helping us complete the Fiscal Years 2002 and 2003 Capital Improvement Plan.

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To: Stan Williams, Walt Wadlow, Ed Willis

From: Nai Hsueh

Subject: Capital Improvement Plan

Date: August 10, 2001

I am submitting the Fiscal Years 2002 and 2003 Capital Improvement Plan (CIP) for your approval.

Purpose of CIP

Primary Purpose

The CIP serves as the District's long-term capital investment plan. It is a tool for staff to plan and make recommendations to the Board on key financial commitments to construct new facilities.
To meet this purpose:

The CIP is organized by "Fund."

The Capital Summary section of each fund presents the size of the fund's projected capital investments, and the fund's plan and assumptions to meet the capital investments.

For each major facility, the plan presents the project cost and schedule for planning, design and construction.

Secondary Purpose

The CIP serves as the basis for the Capital Program Services Division's (CPSD) business plan. It is a tool for CPSD to plan for future staff resource and consultant needs, future core competency and staff development needs.

Characteristic of CIP

Staff Document

The CIP is designed to be a staff-level planning document.

Continuous Update

To provide useful and accurate information to you and staff, the CIP will be continuously updated to reflect changes in schedule and cost projections, funding sources, and planning assumptions.

Additionally, the CIP will be continuously updated to include new capital projects. New capital projects will be reviewed, approved, and prioritized against projects already in the CIP before they are added to the CIP.

Fifteen-Year Plan

To demonstrate staff's commitment to implement the voter approved Flood Protection and Stream Stewardship Program, the CIP's planning horizon is from FY 2002 to FY 2016. The same planning horizon is applied to the Water Enterprise Fund and District General Fund.

Continuous Improvement

The CIP submitted to you can be enhanced and improved. We have identified three content areas that we would like to add in the future:

"Spending schedules" to accompany the "funding needs schedules" thereby providing a more complete financial status for each fund.

Measurable "operating impacts" for each project to more accurately identify future operating expenditures and plan for these expenditures in each fund.

Measurable benefits associated with CEO interpretation of Board policies.

Funding Issues Identified in the CIP

Guadalupe Watershed Fund

The assumptions for revenue sources are very optimistic; i.e., the CIP assumes Congress will appropriate the needed federal share of Downtown Guadalupe River Project, receiving $41.9 million from the State Subventions Program between FY 2002 and FY 2006, receiving $5 million from the Corps of Engineers (COE) in FY 2003, and receiving $15.8 million from the San Jose Redevelopment Agency in FY 2002. Given those assumptions, staff will continue to aggressively secure funding support from both the COE and the State Subventions Program. The fund still shows a negative balance starting in FY 2004 even with these assumptions (Page 35). The financial situation of this fund will be closely monitored to provide you and other staff with adequate information for making critical decisions affecting the fund.

Coyote Watershed Fund

The assumptions for revenue sources are conservative; i.e., the CIP assumes no revenue from Natural Resources Conservation Service (NRCS) to fund the Lower Silver Creek Project, and no reimbursement from the State Subventions Program beyond FY 2003. The fund shows a negative balance for several years (Page 51). The shortfall is relatively small and manageable through project timing adjustments or possible short-term loan. The financial situation of this fund will be closely monitored to provide you and other staff with adequate information for making critical decisions affecting the fund.

Upper Penitencia Creek from Coyote Creek Confluence to Dorel Drive is planned to be a cooperative project between the COE and the District with each party paying for approximately 50 percent of the project costs. This is a change from the Flood Protection and Stream Stewardship Program Plan under which the project was planned to be a District-financed project without federal participation. This change also affected the project completion schedule, which is extended from 2004 to 2010.

Uvas/Llagas Watershed Fund

Starting in FY 2001, this fund does not have adequate operating revenue to maintain the level of services of its pre-2001 operational programs and activities. It is assumed that the fund will continue its pre-2001 operational spending and supplement the shortfall with its capital reserve until the capital reserve is used up (Page 77). A strategy needs to be developed to address this issue.

Watershed and Stream Stewardship Fund

This fund is recently established and does not yet have clearly identified operational programs/activities or a capital improvement program. As a result, the "available annual revenue" increases annually; there is only a small "projected funding need" which generates large "capital reserves" as shown in the funding chart (Page 111). The large "capital reserve" provides a ceiling for planning the fund's capital and operating projects. Examples of items chargeable to this fund include both operations and capital projects needed to mitigate for environmental impacts of the District's ten-year maintenance program, and staff proposed environmental enhancement opportunities.

Water Enterprise Fund

The "projected funding needs" for this fund is not fully developed yet and shows a significant drop in FY 2008 (Page 134). With the aging of the utility's infrastructures and more stringent water quality, health and safety, and work environment regulations, it is anticipated that the utility's capital improvement program for the next 15 years will focus on ensuring the reliability and integrity of its infrastructures. Staff is in the process of developing an Asset Management Plan and Regional and Local Reliability Plan to size the facility needs and financial impacts of repairing and upgrading of water utility infrastructure. These Plans will serve as the blue print for identifying new capital projects and projecting future funding needs.

District General Fund

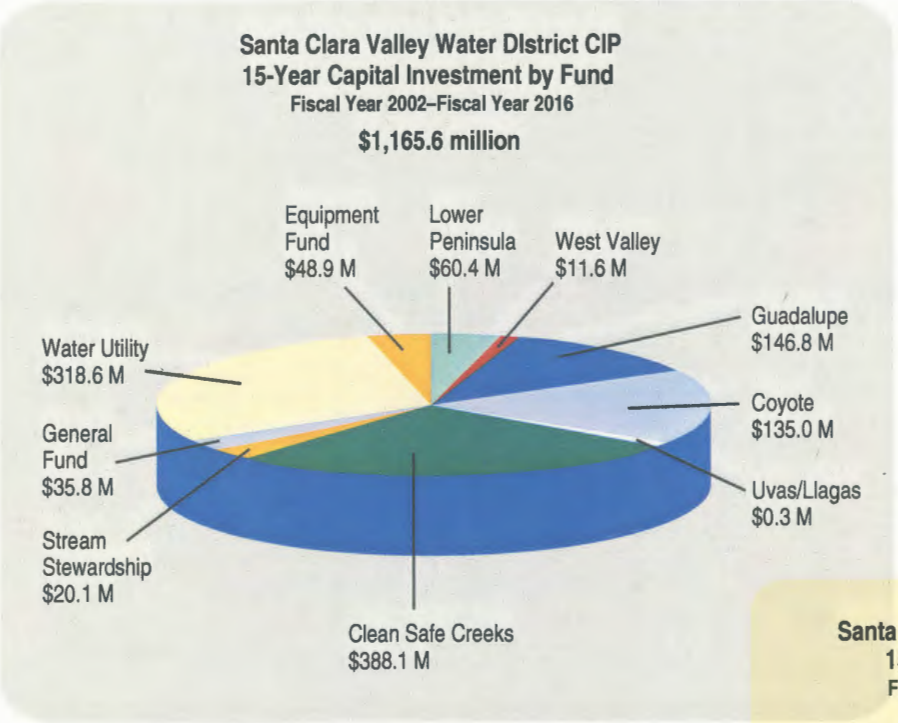
The fund has a two-year planning horizon for forecasting its funding sources. Based on the two-year plan, the fund will have approximately $811,000 capital reserve at the end of FY 2003. This amount is not adequate to meet the projected funding needs beyond FY 2003 (Page 121). Staff is in the process of developing a long-term financial model to plan for the funding sources and their potential impacts on the seven Flood Protection and Stream Stewardship Funds and Water Enterprise Fund. Additionally, the fund's capital improvement program is not fully developed yet. Staff will start evaluation of the Districts building and office facilities and develop an Asset Management Plan. The plan will serve as the blue print for identifying new capital projects and projecting future funding needs.

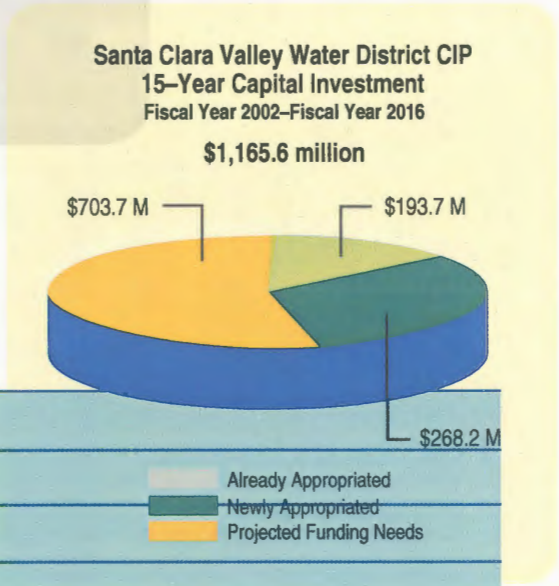
Financial Summary of the CIP

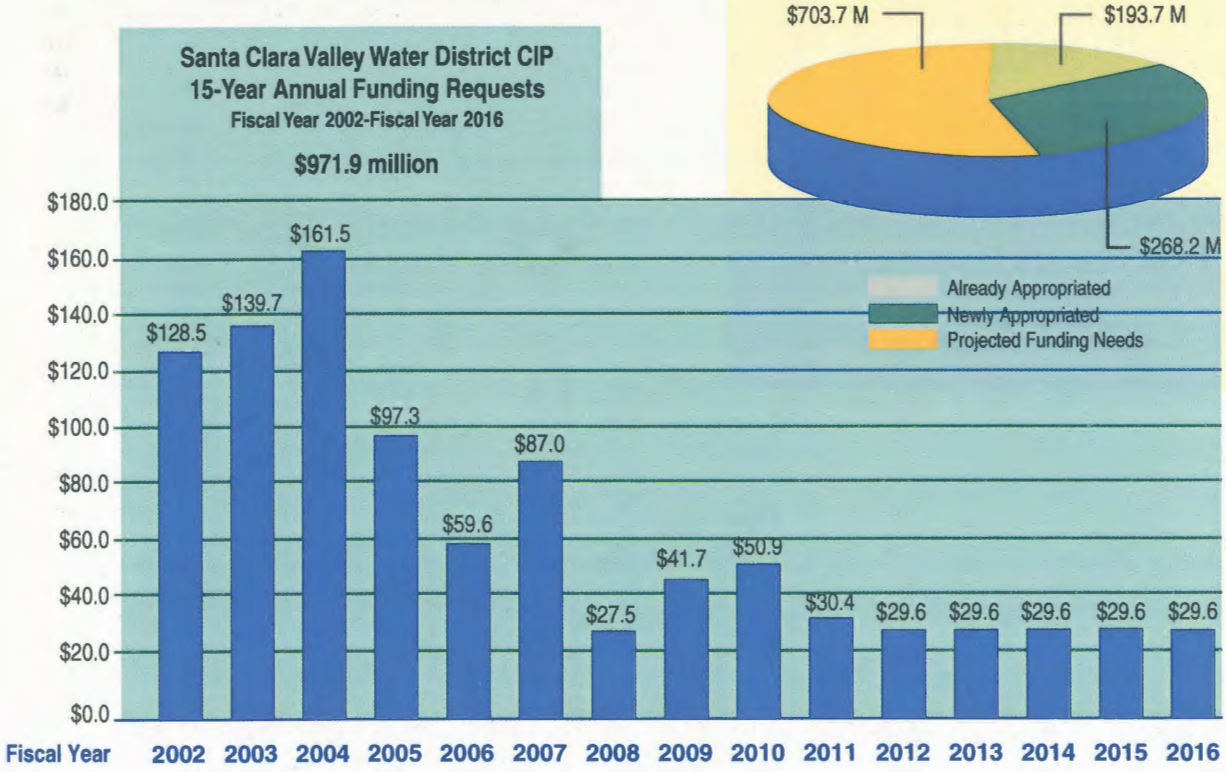
The estimated fifteen-year capital investments for the District, from FY 2002 to FY 2016, to complete current and planned future capital projects is $1,165.6 million, distributed among the ten funds as shown in the following chart, including seven Flood Protection and Stream Stewardship Funds, Water Enterprise Fund, District General Fund, and Equipment Fund.

Of the estimated total investments, $193.7 million were already appropriated by the Board of Directors in previous years, $268.2 million are newly appropriated for FY 2002 and 2003, and $703.7 million will be requested in future years.

Annual funding requests from Fiscal Year 2002 to Fiscal Year 2016, total $971.9 million.







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Water District

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Santa Clara Valley
Water District

FLOOD PROTECTION & STREAM STEWARDSHIP

Santa Clara Valley Water District

FLOOD PROTECTION & STREAMSTEWARDSHIP

PROGRAM OVERVIEW

The District's Flood Protection and Stream Stewardship Program (Program) is a fifteen-year plan, 2001 to 2016, adopted by the Board of Directors and approved by the voters in November 2000. This comprehensive program was developed through a dynamic, ongoing, interactive process involving community input on the Program, staff analysis/refinement of the Program, and Board actions.

Elements of the Program help reduce property damage and disruption to business, and ensure that people can travel to jobs and schools during even the wettest winters. At the same time, the Program improves water quality, restores habitat for wildlife, enhances creek aesthetics and provides new recreational opportunities—all while ensuring a cost-effective investment of taxpayer dollars. In summary, the Program delivers the following four outcomes:

Outcome #1

Homes, schools, businesses and highways protected from flooding and erosion

Outcome #2

Clean, safe water in our creeks and bays

Outcome #3

Creeks and bay ecosystems protected, enhanced or restored

Outcome #4

Additional open spaces, trails and parks along creeks and in the watersheds

CAPITAL IMPROVEMENT PROGRAM

The Capital Improvement Program plays an important role in accomplishing the four outcomes of the District's Flood Protection and Stream Stewardship Program. The currently planned capital improvement program includes thirty projects to accomplish Outcome #1, one project to accomplish Outcome #2, six projects to accomplish Outcome #3 and two projects to accomplish Outcome #4. These projects are listed in the table to the right.

Detailed description of the capital improvement program for each of the seven Flood Protection and Stream Stewardship funds, including major projects completed, and the scopes, schedules and costs of the current and future projects are provided in the following sections. Each section represents one of the seven funds within the Flood Protection and Stream Stewardship Program.

* Note: The Outcome #1 projects are multi-objective projects that have project features accomplishing Outcome #2, #3 and #4 also. Please refer to "Project Objective" for each project for details.

Outcome #1 *

Adobe Creek, El Camino Real-Rhus Ridge
Matadero/Barron Creeks Remediation
Permanente Creek Planning Study, SF Bay-Foothill Expressway
San Francisquito Creek Planning Study, SF Bay-Searsville Dam
San Francisquito Creek Levee Restoration Downstream of 101
Calabazas Creek, Bollinger Bridge Reconstruction
Calabazas Creek, Comer Debris Basin Study
San Tomas Creek Repairs, Monroe St to Williams Rd
Guadalupe River Lower, Union Pacific Railroad-880
Guadalupe River Downtown, 880-280
Los Gatos Creek Erosion Repairs at Kirk-Page Turnout
Los Gatos Creek Erosion Repairs at Gilgen Property
Randol Creek Flood Risk Study
Berryessa Creek, Lower Penitencia Confluence-Calaveras Blvd
Calera Creek, Berryessa Creek Confluence-680
Calera Creek at Union Pacific Railroad
Coyote Creek, So. Bay Mobile Home Floodwall
Coyote Creek at Rockspring Neighborhood
Lower Silver Creek, Coyote Creek Confluence-Lake Cunningham
Silver/Thompson Creeks, Cunningham Ave-Aborn Rd
Upper Penitencia Creek, Coyote Creek Confluence-Dorel Drive
Upper Guadalupe River, 280-Blossom Hill Road
Berryessa Creek, Calaveras Blvd-Old Piedmont Road
Coyote Creek, Montague-Hwy 280
Upper Llagas Creek, Buena Vista Avenue-Wright Avenue
Permanente Creek, SF Bay-El Camino Real
San Francisquito Creek, SF Bay-Searsville Dam
Sunnyvale West Channel, Guadalupe Slough-101
Calabazas Creek, Miller Avenue-Wardell Road
Sunnyvale East Channel, Guadalupe Slough-280

Outcome #2

Uvas/Llagas Vegetative Buffer Strips

Outcome #3

Freshwater Wetlands Maintenance Mitigation
Calabazas Creek Lawrence Expwy-Miller Ave Revegetation
Guadalupe Creek Restoration, Almaden Expy-Masson Dam
Pond A4 Tidal Wetlands Mitigation
Church Avenue Percolation Pond Wetland Creation
Stevens Creek Drop Structure Modifications, Upstream of 85

Outcome #4

Alamitos Fish Ladder Site Modification
Coyote Creek Outdoor Classroom

FINANCIAL OVERVIEW

There are seven funds that collectively finance all activities of the Program. Each fund was established to account for specific revenue sources that can only be used to finance predefined activities. Therefore, each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures and expenses.

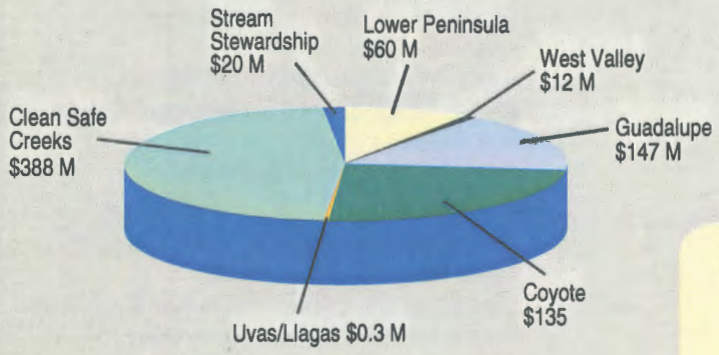
The five watershed funds and the Clean, Safe Creeks Fund are special revenue funds. They are used to account for specific revenue sources, the voter-approved Benefit Assessment revenue for the five watershed funds, and the special tax revenue for the Clean Safe Creeks Fund.

The Watershed and Stream Stewardship Fund is a sub-fund within the District's General Fund. This fund receives a portion of the District's ad volerem tax as its revenue source.

Seven Funds Collectively Finance the Program
Lower Peninsula Watershed Fund
West Valley Watershed Fund
Guadalupe Watershed Fund
Coyote Watershed Fund
Uvas/Llagas Watershed Fund
Clean, Safe Creeks & Natural Flood Protection Fund
Watershed and Stream Stewardship Fund

Flood Protection and Stream Stewardship Program
15-Year Capital Investment by Fund
Fiscal Year 2002–Fiscal Year 2016

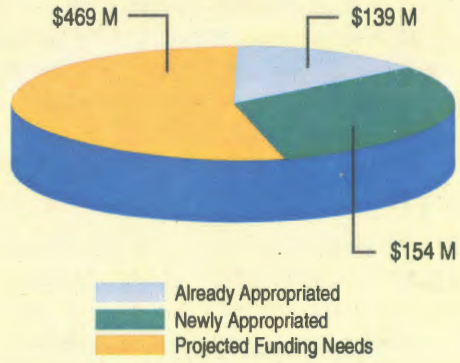
$762 Million



The estimated fifteen-year capital investment, from FY 2002 to FY 2016, is $762 million, distributed among the seven Flood Protection and Stream Stewardship funds. Of the $762 million fifteen-year total investment, $139 million was appropriated by the Board of Directors in previous years, $154 million is newly appropriated for FY 2002 and 2003, and $469 million is projected funding needs.

Flood Protection and Stream Stewardship Program
15–Year Capital Investment
Fiscal Year 2002–Fiscal Year 2016

$762 Million



LOWER PENINSULA WATERSHED

Santa Clara Valley Water District

LOWER PENINSULA WATERSHED FUND

OVERVIEW

The Lower Peninsula Watershed Fund is a special revenue fund. It was initially established to account for the Northwest Flood Control Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1986 by voters within the Lower Peninsula Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program, within the watershed.

The Lower Peninsula Watershed encompasses the northwest area of the Santa Clara County, including Stanford University and the cities of Palo Alto, Mountain View, Los Altos, Los Altos Hills and part of Cupertino and Sunnyvale.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Lower Peninsula Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS—COMPLETED

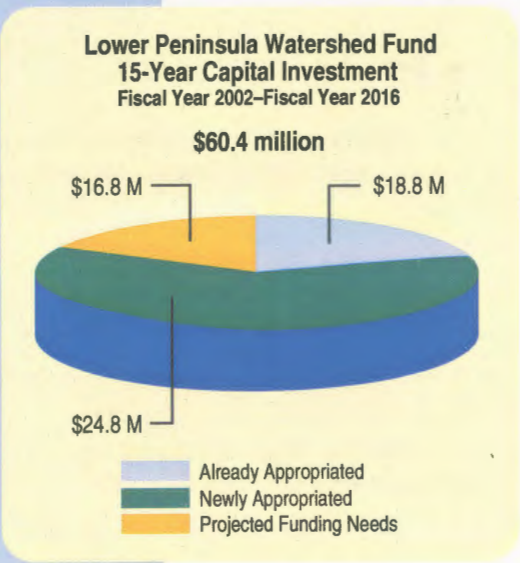
- Adobe Creek from Palo Alto Flood Basin to El Camino Real
- Matadero Creek from Palo Alto Flood Basin to Bol Park
- Barron Creek from Palo Alto Flood Basin to Bol Park

MAJOR PROJECTS—CURRENT

- Adobe Creek from El Camino Real to Rhus Ridge
- Matadero/Barron Creeks Remediation
- Permanente Creek Planning Study from San Francisco Bay to Foothill Expressway
- San Francisquito Creek Planning Study from San Francisco Bay to Searsville Dam
- San Francisquito Creek Levee Restoration Downstream of Highway 101
- Stevens Creek Drop Structure Upstream of Highway 85

MAJOR PROJECTS—FUTURE

No future project identified at this time.



The estimated fifteen-year capital investments, from FY 2002 to FY 2016, to complete current and future capital projects is $60.4 million, with $18.8 million appropriated by the Board of Directors in previous years, $24.8 million newly appropriated for FY 2002 and 2003, and $16.8 million projected funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
101005 through 101009	Adobe Creek El Camino-Rhus Ridge	3,416	6,733	4,662	1,125	373	3,397	601	19	9	0	0	0	0	20,335
102109	Matadero Barron Creek Remediation	2,671	7,317	542	11,604	909	723	348	38	51	0	0	0	0	24,204
102401	Permanente Ck SF Bay–Foothill Exp	2,518	2,286	796	4,128	0	0	0	0	0	0	0	0	0	9,729
102804	San Francisquito Creek, SF Bay-Searsville Dam	1,368	2,007	0	0	2,044	2,480	2,470	1,350	0	0	0	0	0	11,720
102806	San Francisquito Creek, Levee Restoration	19	226	905	38	0	0	0	0	0	0	0	0	0	1,188
102901	Stevens Creek Drop Structure Modifications	390	217	778	237	0	0	0	0	0	0	0	0	0	1,622
	Total	**10,383**	**18,787**	**7,683**	**17,132**	**3,326**	**6,599**	**3,419**	**1,407**	**61**	**0**	**0**	**0**	**0**	**68,797**
	Total (with inflation)	**10,383**	**18,787**	**7,683**	**17,132**	**3,634**	**7,428**	**3,964**	**1,680**	**74**	**0**	**0**	**0**	**0**	**70,764**
	15-Yr Investment		**18,787**	**24,815**					**16,780**						**60,382**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are four categories of revenue sources available to the Lower Peninsula Watershed for funding capital projects. These sources include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

In the year 2000, the Lower Peninsula Watershed Fund issued Certificates of Participation (COPs) in the amount of $30 million to finance its capital improvement program. It is projected that all of the COP revenues will be used by FY 2004.

AVAILABLE ANNUAL REVENUE

For the next 15 years, on a yearly basis, the Lower Peninsula Watershed Fund will have approximately $300,000 to $3 million available annual revenue for its capital program.

PARTNERSHIPS

In 1999 the County of San Mateo, City of Menlo Park, City of East Palo Alto, City of Palo Alto, and the Santa Clara Valley Water District formed the San Francisquito Creek Joint Powers Authority to cooperatively address the financial and watershed issues related to San Francisquito Creek.

San Francisquito Levee Restoration Project

The agencies on each side of the creek are responsible for the costs of their side. San Mateo Flood Control District will finish the environmental documents.

San Franciscquito Creek from San Francisco Bay to Searsville Dam

The Joint Power Authority is pursuing Corps of Engineers participation in the feasibility study. The project is potentially a federal–local cooperative project. For planning purposes, no cost sharing is assumed for this project. This assumption is consistant with the Flood Protection and Stream Stewardship Program Plan.

PEAP FOR CAPITAL

In this fund only, the Board set aside approximately $4.4 million in the PEAP Fund for San Francisquito Creek from SF Bay to Searsville Dam. A funding source of $4.4 million is shown on the table below for FY 2004.

CAPITAL RESERVE

The Lower Peninsula Watershed Fund will have accumulated approximately $6 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		7,683	17,132	3,634	7,428	3,964	1,680	74	0	0	0	0	0	0	0	0
Funding Sources																
Debt Financing		3,500	20,000	5,497	0	0	0	0	0	0	0	0	0	0	0	0
Available Annual Revenue		(1,660)	(1,637)	1,407	2,904	3,203	482	296	236	224	234	245	256	269	281	295
Partnerships (See Appendix for details)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAP for Capital Projects		0	0	4,400	0	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources		1,840	18,363	11,304	2,904	3,203	482	296	236	224	234	245	256	269	281	295
Balance Increase (decrease to Capital Reserve		(5,843)	1,231	7,670	(4,524)	(761)	(1,198)	223	236	224	234	245	256	269	281	295
Capital Reserve		6,020	178	1,408	9,078	4,554	3,793	2,695	2,818	3,053	3,278	3,512	3,757	4,013	4,282	4,563
Increase (decrease) to Capital Reserve		(5,843)	1,231	7,670	(4,524)	(761)	(1,198)	223	236	224	234	245	256	269	281	295
Designated for Future Years Capital Reserve	6,020	178	1,408	9,078	4,554	3,793	2,595	2,818	3,053	3,278	3,512	3,757	4,013	4,282	4,563	4,858

Project Number:
101005, 101007
101008, 101009

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide protection against flooding.
- Provide protection against erosion.
- Improve sedimentation transport.
- Protect and enhance the creek ecosystem.
- Provide for fish passage.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements, or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project will provide the following deliverables to meet project objectives:

- detailed civil and environmental design.
- supplemental environmental impact report (EIR).
- plans and specifications.
- permanent and temporary right of way.
- engineering support during construction.
- as-built drawings.

This effort is accounted for in the following job numbers:

101005 = Reach 5	from Foothill Expressway to West Edith
101007 = Reach 11-13	from Foothill College to Rhus Ridge
101008 = Reach 7-9	from Burke Road to Highway 280
101009 = Reach 1-4	from El Camino Real to Foothill Expressway

OPERATING BUDGET IMPACTS

Operating budget impacts from the construction of this project are expected and being developed. They will be reported in the near future.

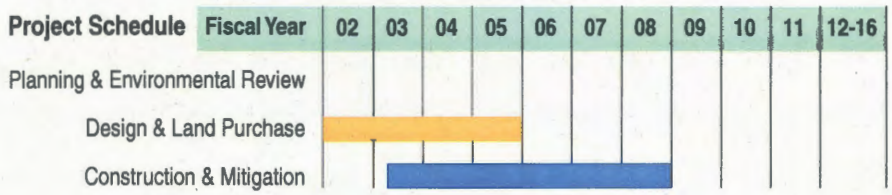
INITIATION AND COMPLETION DATES

September 1998 to October 2007 (design and construction).

POTENTIAL COST SHARING

None

SCHEDULE



Typical erosion site along reaches 1–4 of Adobe Creek. Project will repair the site using boulder rip–rap to restore the original bank.

Project Limits
Construction Completed
1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
101005	Adobe R5	1,843	2,067	1,139	354	68	10	5	0	0	0	0	0	0	5,486
101007	Adobe R11-13	77	1,078	0	0	114	3,359	582	11	9	0	0	0	0	5,231
101008	Adobe R7-9	62	954	968	164	98	0	0	0	0	0	0	0	0	2,247
101009	Adobe R1-4	1,434	2,633	2,555	607	93	28	14	8	0	0	0	0	0	7,371
Total		3,416	6,733	4,662	1,125	373	3,397	601	19	9	0	0	0	0	20,335

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Matadero/Barron Creek Remediation

Palo Alto Flood Basin to Foothill Expressway

Project Number:
102109

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

To provide one-percent flood protection with adequate freeboard from flows in Barron and Matadero Creeks, from the Palo Alto Flood Basin to Foothill Expressway.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 1.2.2 – "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits.
- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."

SCOPE OF WORK

This project plans, designs, acquires right-of-way, constructs, and acquires a Letter of Map Revision to be certified by FEMA for the Matadero Creek from Palo Alto Flood Basin to Foothill Expressway. Deliverables include a project plan, engineer's report, environmental impact report, conditional letter of map revision, permits from regulatory agencies, plans and specifications, and flood insurance rate map revision.

OPERATING BUDGET IMPACTS

Operating budget impacts from the construction of this project are expected and being developed. They will be reported in the near future.

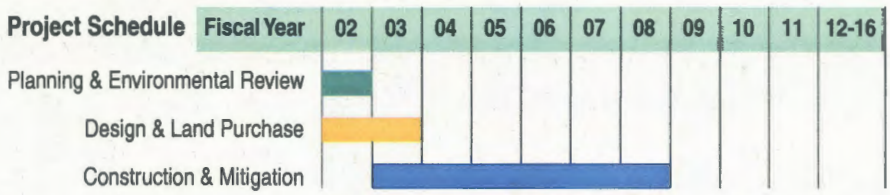
INITIATION AND COMPLETION DATES

March 1999 to March 2008.

POTENTIAL COST SHARING

None

SCHEDULE



Matadero Creek looking downstream at Louis Road showing existing concrete channel lining with floodwalls. Proposed project includes Channel widening and raising existing floodwalls.

Matadero Creek looking upstream at Cowper Street showing existing concrete lined channel with floodwalls. Proposed project features include raising existing floodwalls by 1 to 2 feet.

Project Limits

Phase IV & V Construction Completed in 1996

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
102109	Matadero Barron Creek Remediation	2,671	7,317	542	11,604	909	723	348	38	51	0	0	0	0	24,204

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
102401

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection, reduce erosion and sedimentation, and reduce maintenance costs on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

- Conduct planning study including environmental clearances.
- Design, prepare plans and specifications, and acquire needed right of way.
- Construction of the approved project will be done in a separate project number and will be funded by Clean Safe Creeks and Natural Flood Protection funds.

OPERATING BUDGET IMPACTS

Operating budget impacts from the construction of this project are expected and will be developed during the planning study.

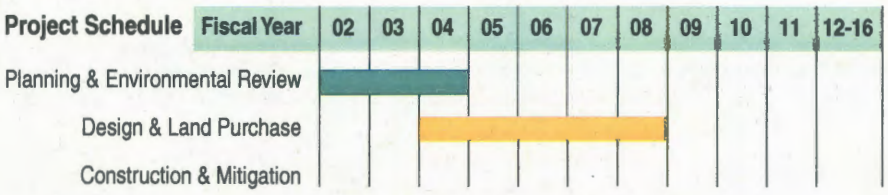
INITIATION AND COMPLETION DATES

January 1998 to June 2008 (planning and design phases only).

POTENTIAL COST SHARING

None

SCHEDULE



Looking upstream at the golf course foot bridge. Erosion on the right side of the picture will be repaired as part of the flood protection project.

Project Limits

1 Percent Floodplain

COST

in thousands $

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
102401	Permanente Ck SF Bay–Foothill Exp	2,518	2,286	796	4,128	0	0	0	0	0	0	0	0	0	9,729

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
102804

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide planning and design for flood protection, erosion control and sedimentation control on San Francisquito Creek from San Francisco Bay to the Searsville Dam.
- Identify environmental restoration and enhancement benefits, where opportunities exist.
- Identify recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project will provide funding for the District to:

- Conduct all activities to complete the planning study, including environmental review.
- Partial design. Design and preparation of plans and specifications will be funded by the Clean Safe Creeks and Natural Flood Protection fund and recorded in a separate project number.

OPERATING BUDGET IMPACTS

Operating impacts are anticipated and will be developed during the planning study.

INITIATION AND COMPLETION DATES

July 2000 to June 2007 (planning and preliminary design only).

POTENTIAL COST SHARING

Yes

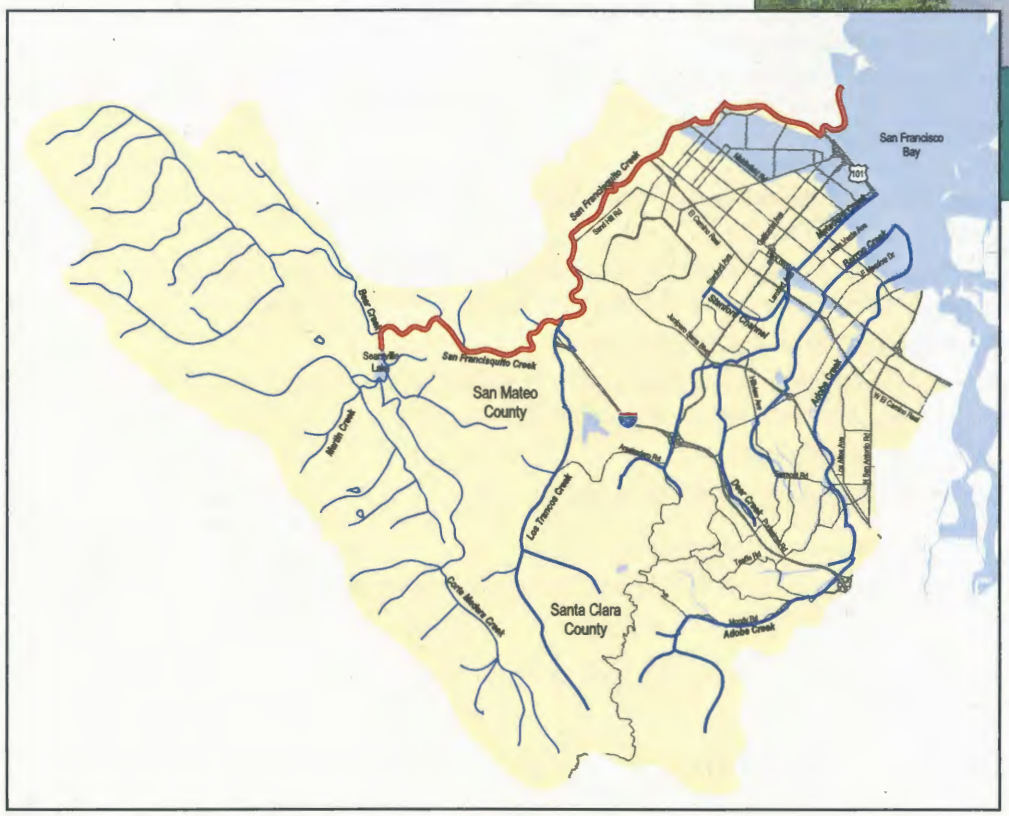
Partnering Agencies: San Francisquito Creek Joint Power Authority (JPA), and Corps of Engineers (COE). JPA is currently pursuing COE participation in the feasibility study. Refer to Partnership section on page 5.

Cost Sharing Formula: Undetermined

Reimbursement Schedule: Undetermined

SCHEDULE

Looking downstream from the Waverly Street Bicycle Bridge between Middlefield Road and El Camino Real.



COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
102804	San Francisquito Creek, SF Bay-Searsville Dam	1,368	2,007	0	0	2,044	2,480	2,470	1,350	0	0	0	0	0	11,720

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
102806

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Restore the existing levee downstream of Hwy 101 to the 1958 as-built elevations.
- Mitigate for any environmental impacts resulting from the construction.
- Mitigate for any adverse flooding impacts resulting from restoring the levee heights.
- Identify BMP's to provide clean water to the creek.
- Identify in the plan opportunities for trails, parks, and open space.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And "...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

This project requires the District to:

- Complete a hydraulic analysis using Hydraulic Engineering Center's River Analysis System (HECRAS).
- Participate in CEQA process, including a plan to mitigate any environmental impacts, and identification of any "induced" flooding impacts with appropriate mitigation options.
- Participate in obtaining all necessary permits.
- Prepare construction drawings and specifications for levee work downstream of Hwy 101 and flood walls upstream of Hwy 101 on Palo Alto side of the creek.
- Participate in advertising the project.
- Participate in managing construction of the project.

OPERATING BUDGET IMPACTS

Operating budget impacts from the construction of this project are expected and being developed. They will be reported in the near future.

INITIATION AND COMPLETION DATES

October 2000 to March 2003.

POTENTIAL COST SHARING

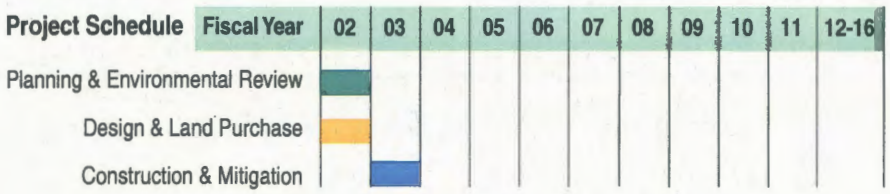
Yes

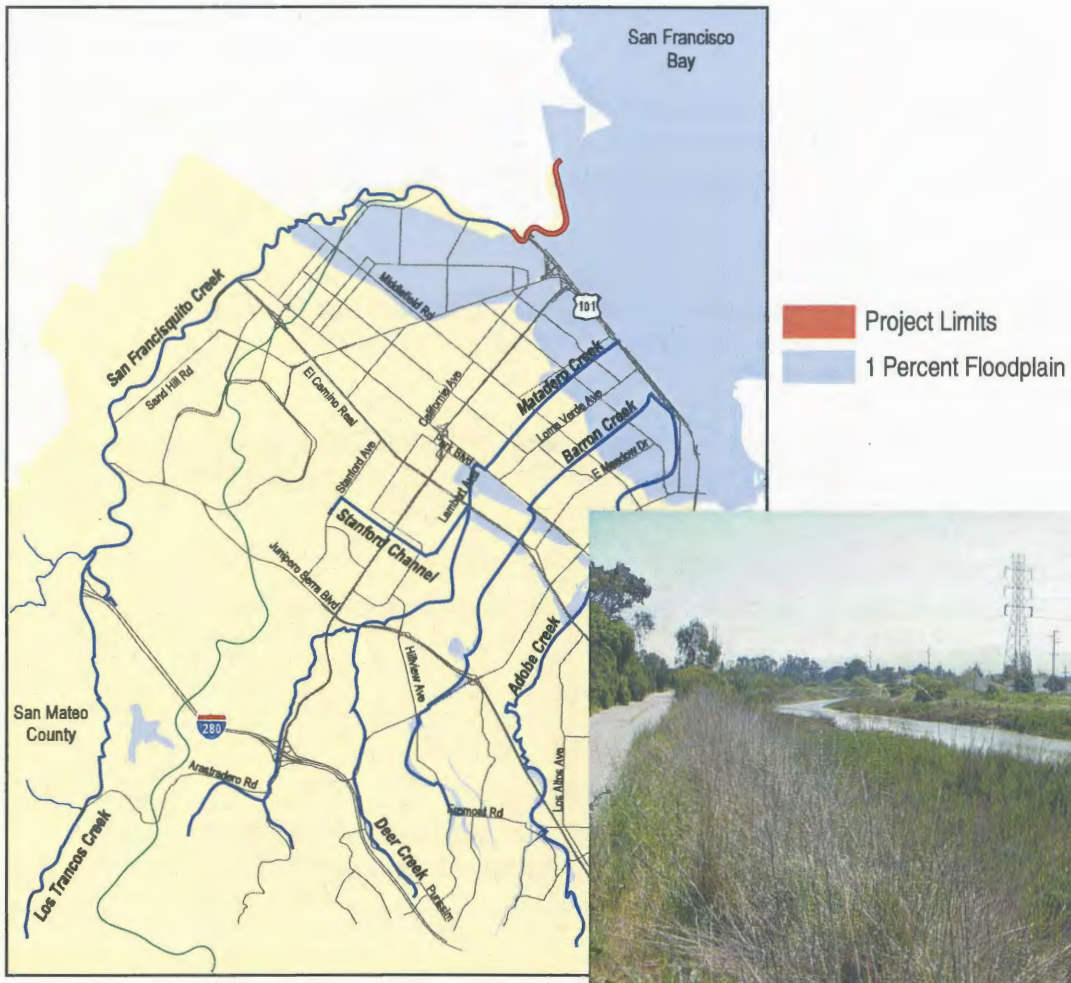
Partnering Agencies: San Mateo County Flood Control District and City of Palo Alto.

Cost Sharing Formula: Agencies on each side of the creek are responsible for the costs of their side. San Mateo Flood Control District will firnish the environmental documents.

Reimbursement Schedule: Not applicable

SCHEDULE





San Francisquito Creek, near the Bay, looking upstream.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
102806	San Francisquito Creek, Levee Restoration	19	226	905	38	0	0	0	0	0	0	0	0	0	1,188

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Stevens Creek Drop Structure Modifications

Highway 85

Project Number:
102901

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide for improved upstream and downstream migration of steelhead trout on Stevens Creek, upstream of Highway 85.
- Continue establishing good working relationships with regulatory agencies and local organizations.

BENEFITS

- Policy E-1, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

This project consists of obtaining permits and CEQA clearance, design, preparation of plans and specifications, and construction to relocate Stream Gage Station 35 and modify the existing drop structure to allow fish passage on Stevens Creek.

OPERATING BUDGET IMPACTS

No significant impact on the operating budget is expected, due to the limited length of the creek affected.

INITIATION AND COMPLETION DATES

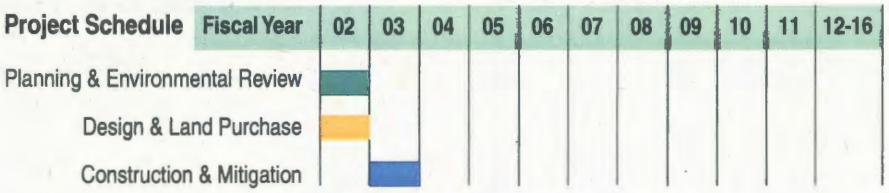
August 2000 to December 2002.

POTENTIAL COST SHARING

California Department of FIsh and Game awarded the District $167,360 for this project. This potential cost sharing has not been included in the funding for the project at this time.

Existing Stream Gage Station 35 to be relocated upstream on opposite bank.

SCHEDULE



Stevens Creek Drop Structure in the city of Mountain View looking upstream.

★ Project Location

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
102901	Stevens Creek Drop Structure Mods	390	217	778	237	0	0	0	0	0	0	0	0	0	1,622

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

WEST VALLEY WATERSHED

Santa Clara Valley Water District

WEST VALLEY WATERSHED FUND

OVERVIEW

The West Valley Watershed Fund (Fund) is a special revenue fund. It was established initially to account for the North Central Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1990 by voters within the West Valley Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program, within the watershed.

The West Valley Watershed encompasses the west part of the Santa Clara County, and includes the cities of Saratoga, and parts of the cities of Campbell, Cupertino, Los Gatos, Monte Sereno, San Jose, Santa Clara, and Sunnyvale.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved West Valley Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1990, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS—COMPLETED

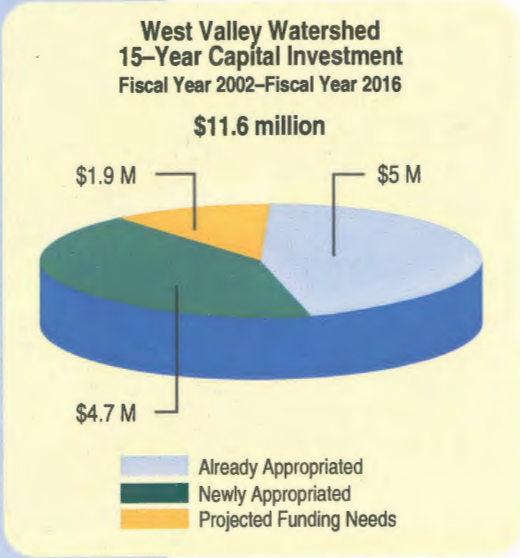
- Calabazas Creek from Guadalupe Slough to Miller Avenue
- San Tomas Creek Emergency Levee Raising from Hwy 237 to 101

MAJOR PROJECT—CURRENT

- Freshwater Wetlands Maintenance Mitigation
- Calabazas Creek Lawrence Expressway to Miller Avenue Revegetation
- Calabazas Creek Bollinger Bridge Reconstruction
- Calabazas Creek Corner Debris Basin Study
- San Tomas Creek Repairs from Monroe Street to Williams Road

MAJOR PROJECTS—FUTURE

No future projects identified at this time



The estimated fifteen-year capital investments, from FY 2002 to FY 2016 to complete the current and future capital projects is $11.6 million, with $5 million appropriated by the Board of Directors in previous years, $4.7 million newly appropriated for FY 2002 and 2003, and $1.9 million projected funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
200420	Freshwater Wetlands Maintenance	0	0	2,788	1,460	0	0	0	0	0	0	0	0	0	4,248
201013	Calabazas Creek Lawrence to Miller Revegetation	2,733	849	0	0	0	0	0	0	0	0	0	0	0	3,581
201015	Calabazas Creek Bolinger Bridge	88	2,103	0	0	0	0	0	0	0	0	0	0	0	2,191
201016	Calabazas Creek Corner Debris	0	69	34	32	0	0	0	0	0	0	0	0	0	134
201905	San Tomas Creek Repairs	237	1,934	197	238	330	1,300	30	0	0	0	0	0	0	4,266
	Total	**3,058**	**4,954**	**3,019**	**1,730**	**330**	**1,300**	**30**	**0**	**0**	**0**	**0**	**0**	**0**	**14,421**
	Total (with inflation)	**3,058**	**4,954**	**3,019**	**1,730**	**361**	**1,463**	**35**	**0**	**0**	**0**	**0**	**0**	**0**	**14,620**
	15-Yr Investment		**4,954**	**4,750**					**1,859**						**11,562**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are four categories of revenue sources available to the West Valley Watershed for funding capital projects. These sources include debt financing, available annual revenue, partnerships, and capital reserve.

DEBT FINANCING

In the year 2000, the West Valley Watershed Fund issued Certificates of Participation (COPs) in the amount of $8 million to finance its capital improvement program. It is projected that all of the COP proceeds will be used by FY 2005.

AVAILABLE ANNUAL REVENUE

For the next 15 years, the West Valley Watershed Fund will have approximately $1.6 million to $2.9 million each year Available Annual Revenue for its capital program.

PARTNERSHIPS

The Freshwater Wetlands Maintenance Mitigation Project, financed by West Valley Watershed Fund, will provide for three acres of freshwater wetlands to mitigate for the impacts resulting from the District's past and future creek maintenance activities in the Lower Peninsula, Guadalupe, and Coyote Watersheds. The West Valley watershed Fund will initially fund this work and be reimbursed from the other watershed funds and the Watershed & Stream Stewardship Fund. A cost sharing formula based on benefits received for each Fund will be developed during the planning phase of the project, and then reflected in the analyses of "Source and Flow of Funds" for all affected funds.

CAPITAL RESERVE

The West Valley Watershed Fund will have accumulated approximately $.9 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		3,019	1,730	361	1,463	35	0	0	0	0	0	0	0	0	0	0
Funding Sources																
Debt FInancing		2,000	2,000	2,000	1,363	0	0	0	0	0	0	0	0	0	0	0
Available Annual Revenue		826	1,574	1,582	1,519	1,559	1,623	1,696	1,792	1,894	2,001	2,114	2,233	2,359	2,491	2,631
Partnerships (See Appendix for details)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources		2,826	3,574	3,582	2,882	1,559	1,623	1,696	1,792	1,894	2,001	2,114	2,233	2,359	2,491	2,631
Balance Increase (decrease) to Capital Reserve		(193)	1,844	3,222	1,419	1,524	1,623	1,696	1,792	1,894	2,001	2,114	2,233	2,359	2,491	2,631
Capital Reserve		925	731	2,575	5,797	7,216	8,740	10,363	12,059	13,851	15,745	17,746	19,860	22,094	24,453	26,944
Increase (decrease) to Capital Reserve		(193)	1,844	3,222	1,419	1,524	1,623	1,696	1,792	1,894	2,001	2,114	2,233	2,359	2,491	2,631
Designated for Future Years Capital Reserve	925	731	2,575	5,797	7,216	8,740	10,363	12,059	13,851	15,745	17,746	19,860	22,094	24,453	26,944	29,575

Freshwater Wetlands Maintenance Mitigation

Los Capitancillos Pond

Project Number: 200420

Sponsoring Division: Watershed Management

Project Manager: Belinda Allen

OVERVIEW

OBJECTIVES

- Meet maintenance obligations for freshwater wetland compensatory mitigation by 2002.
- Develop an integrated design with the immediately adjacent properties (Guadalupe Creek Restoration Project) to provide maximum wetland acreage and habitat value.
- Identify freshwater wetland restoration or enhancement opportunities for District Board consideration.

BENEFITS

- Policy E-1, Article 2.1.1 – "Healthy creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."
- Policy E-1, Article 2.1.1.3 – "Mitigation, enhancements or restorations are implemented when determined appropriate by the Board."
- Policy E-1, Article 1.2 – "There is reduced potential for flood damages."
- Policy E-1, Article 1.2.1 – "The cost of reducing the potential for flood damages is balanced with benefits (including possible environmental restoration and enhancement)."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

The project consists of planning, design and construction of 3 acres of freshwater wetlands at Los Capitancillos Pond. The first stage will culminate with completion of the planning study and Board approval of the CEQA document and Engineers Report. A consultant team, Philip Williams and Associates, has been retained to complete this planning stage. The second stage will comprise design of final plans and specifications. The third stage is project construction.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

April 2000 to December 2002.

POTENTIAL COST SHARING

Yes

Partnering Agencies: This project provides for 3 acres of freshwater wetlands to mitigate for impacts resulting from District creek maintenance activities. The Lower Peninsula, Guadalupe, Coyote, and Watershed Stream Stewardship Funds will jointly finance the project with the West Valley Watershed Fund.

Cost Sharing Formula: Cost-sharing formulas will be determined during the planning phase.

Reimbursement Schedule: Will be determined during the planning phase.

SCHEDULE

Project Limits

1 Percent Floodplain

Los Capitancillos site prior to wetland creation. Residential neighborhood adjacent to site.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
200420	Freshwater Wetlands Maintenance Mitigation	0	0	2,788	1,460	0	0	0	0	0	0	0	0	0	4,248

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. Amount shown in cost chart is the estimated total project costs.

Project Number:
201013

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Establish vegetation along the banks of Calabazas Creek within 18 months of the construction project to comply with Army Corps of Engineers and California Fish and Game permits outlined in the District Environmental Impact Report (EIR).
- Revegetate with native vegetation at a level equal to or better than the vegetation levels that existed before construction of the flood control projects.
- Complete miscellaneous revegetation work to comply with regulatory permits.

PROJECT BENEFITS

- Policy E-1, Article 1.2.2 – "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits."
- Policy E-1, Article 2.1.1 – "Healthy creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."

SCOPE OF WORK

- Phase I—design, installation, and establishment of 1500 trees and shrubs between Lawrence Expressway and Homestead Road
- Phase IV—design, installation, and establishment of 3500 trees and shrubs between Homestead Road and Miller Avenue.
- Submit a Letter of Map Revision to the Federal Emergency Management Agency to complete flood map revision between the San Francisco Bay and Miller Avenue.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

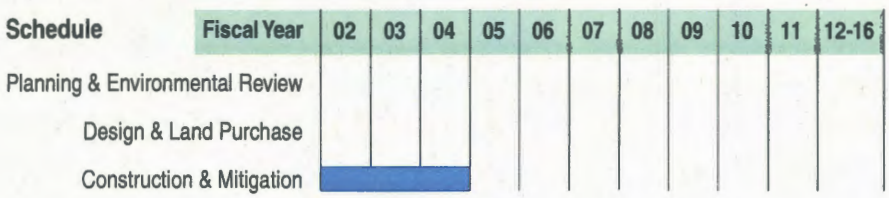
INITIATION AND COMPLETION DATES

June 1998 to December 2003.
(Remaining work will be funded from prior year's unused appropriations.)

POTENTIAL COST SHARING

None

SCHEDULE



Picture taken June 1, 2000, after revegetation project. Calabazas looking upstream from Redtail Court.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
201013	Calabazas Creek Lawrence to Miller Revegetation	2,733	849	0	0	0	0	0	0	0	0	0	0	0	3,581

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
201015

Sponsoring Division:
Watershed Management

Project Manager:
Tim Bramer

OVERVIEW

OBJECTIVES

- Minimize potential of flooding in adjacent residential properties and streets.
- Restore vegetation and habitat.
- Improve fish passage.
- Improve traffic and pedestrian capacity.

BENEFITS

- Policy E-1, Subarticle 1.2 – "There is a reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and Subarticle 9, "Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

This is a cooperative project between the District and City of Cupertino (City) to comply with the CEQA process, prepare construction plans and specifications, acquire all necessary permits and administer the construction contract for

- Enlargement of the existing Bollinger Road bridge culvert to the 100-year flood standard.
- Removal of the abandoned Old Bollinger Road bridge and revegetation of the area.
- Repair of all bank and channel invert erosion for the area just downstream of the existing Bollinger Road to just upstream of Old Bollinger Road.

The City is responsible for preparing CEQA documents, plans and specifications and permit acquisition. The District is responsible for administering the construction contract.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the design phase.

INITIATION AND COMPLETION DATES

August 2000 to September 2003. (Remaining work will be funded from prior year's unused appropriations.)

POTENTIAL COST SHARING

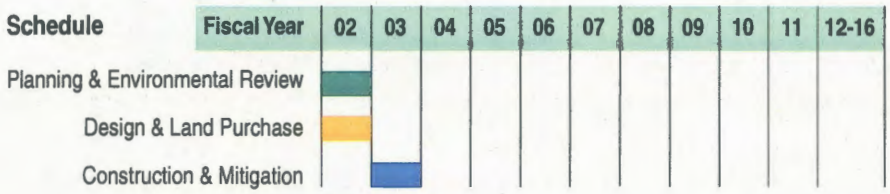
Yes

Partnering Agencies: City of Cupertino and District

Cost Sharing Formula: Based on an agreement, the City will prepare CEQA documents, plans and construction documents, and acquire all necessary permits. The District will provide construction administration. The District will also pay 100 percent of the Old Bollinger Road Bridge removal and 79 percent of the Bollinger Road Bridge reconstruction cost.

Reimbursement Schedule: Not applicable

SCHEDULE



Project Limits

1 Percent Floodplain

Bollinger Road narrows at the bridge over Calabazas Creek, restricting pedestrian and bike traffic. Project will improve pedestrian and bicycle safety.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
201015	Calabazas Creek Bollinger Bridge	88	2,103	0	0	0	0	0	0	0	0	0	0	0	2,191

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. Amount shown in Cost Chart is the estimated District portion of total project costs.

Project Number:
201016

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Evaluate, from a Watershed perspective, the best course of action to maintain a healthy and balanced stream system.

BENEFITS

- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And " ...9. Fail to protect water rights, rights of way, and flood control facilities."
- Policy E-1, Subarticle 2.1.1 – "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."

SCOPE OF WORK

The Comer Debris Basin project will utilize consultant services to prepare a feasibility study evaluating the impact of the Comer Debris Basin on the creek and the impacts of removing or modification of the debris basin, and examine the following issues:

- Hydraulic, hydrologic and sedimentation processes.
- Conceptual basin removal alternatives.
- Adverse and beneficial environmental impacts on water quality, vegetation, habitat, fisheries and aesthetics of all the alternatives.
- Cost to plan, construct and mitigate for at least two feasible alternatives.

Planning (engineer's report and environmental impact report) design and construction of Comer Debris Basin will depend on the results of the feasibility study and is not included in the current scope.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined if the feasibility study suggests that construction is a viable alternative.

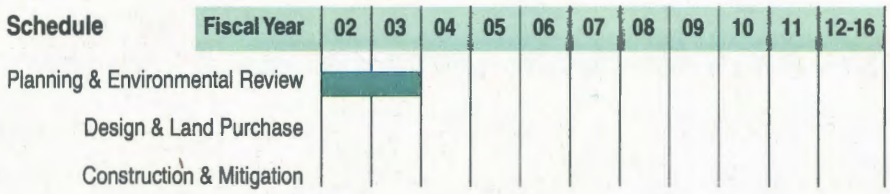
INITIATION AND COMPLETION DATES

August 2000 to December 2002.

POTENTIAL COST SHARING

None

SCHEDULE



From Comer Debris Basin looking downstream of the Calabazas Creek.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
201016	Calabazas Creek Comer Debris Basin	0	69	34	32	0	0	0	0	0	0	0	0	0	134

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
201905

Sponsoring Division:
Watershed Management

Project Manager:
Jason CHristie

OVERVIEW

OBJECTIVES

- Maintain a functioning flood management facility.
- Investigate the extent of damage to the reinforced box on San Tomas Creek between Monroe Street (Sta. 234+00) and Williams Road (Sta. 433+00) in the cities of Santa Clara and San Jose. Approximately 19,900 feet will be investigated.
- Repair the structure before further degradation of the structure results in failure.
- Cost share the investigation of the structure with the County.
- Cost share the design and repair of the structure with the County.

BENEFITS

- Policy E-1, Subarticle 1.2 – "There is a reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and Subarticle 9, "Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

The County of Santa Clara has video taped the San Tomas Creek Reinforced Box Culvert and has determined that it is in need of structural repairs. The Structural Design Section of the County's Roads and Airports Department will develop a repair strategy including a cost estimate in the summer of 2001. Once the County completes the repair strategy, District staff will meet with them and negotiate an agreement for project design and construction, and cost sharing between the two agencies.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined upon completion of the planning phase.

INITIATION AND COMPLETION DATES

Project will be complete by December 2006.

POTENTIAL COST SHARING

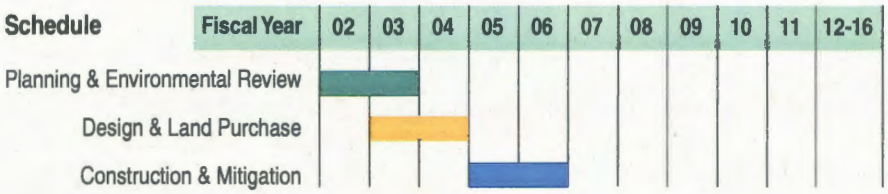
Yes

Partnering Agencies: Santa Clara County

Cost Sharing Formula: Cost-sharing formulas will be determined in fiscal year 2002.

Reimbursement Schedule: The reimbursement schedule will be determined in fiscal year 2002.

SCHEDULE



Upstream end of the San Tomas Reinforced Concrete Box at Williams Road. The Box has structural problems, which are currently being assessed.

Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
201905	San Tomas Creek Repairs	237	1934	197	238	330	1,300	30	0	0	0	0	0	0	4,266

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. Amount shown in Cost Chart is the estimated total project cost, including both the District's and Santa Clara County's share.

GUADALUPE WATERSHED

Santa Clara Valley Water District

GUADALUPE WATERSHED FUND

OVERVIEW

The Guadalupe Watershed Fund (Fund) is a special revenue fund. It was initially established to account for the Central Flood Control Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1986 by voters within the Guadalupe Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program, within the watershed.

The Guadalupe Watershed encompasses the entire Guadalupe watershed; including portions of the Town of Los Gatos, and the cities of Campbell, Monte Sereno, Santa Clara, and San Jose.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Guadalupe Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS—COMPLETED

- The flood control features of the first two of the three reaches of Downtown Guadalupe River Project, from Highway 880 to Coleman Avenue.

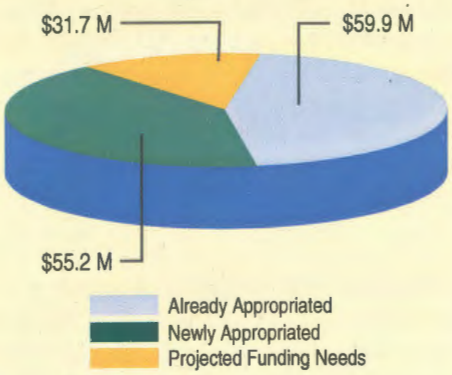
MAJOR PROJECTS—CURRENT

- Lower Guadalupe River from Union Pacific Railroad to Highway 880
- Downtown Guadalupe River from Highway 880 to Highway 280
- Guadalupe Creek Restoration from Almaden Expressway to Masson Dam
- Los Gatos Creek Erosion Repair at Kirk-Page Turnout
- Los Gatos Creek Erosion Repair at Gilgen Property
- Randol Creek Flood Risk Study

MAJOR PROJECTS—FUTURE

No future projects identified at this time.

Guadalupe Watershed Fund
15–Year Capital Investment
Fiscal Year 2002–Fiscal Year 2016
$146.8 million



The estimated fifteen-year capital investments, from FY 2002 to FY 2016, to complete the current and future projects is $146.8 million, with $59.9 million already appropriated by the Board of Directors in previous years, $55.2 million newly appropriated for FY 2002 and 2003, and $31.7 million projected funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
301511	Guadalupe River Lower, UPRR–880	11,656	39,307	789	559	20,259	75	75	3,348	0	0	0	0	0	76,068
301513 through 301517	Guadalupe River Downtown I-880 — I-280	35,221	12,351	45,592	4,915	4,050	190	151	0	0	0	0	0	0	102,471
301525	Guadalupe Creek	382	7,925	1,935	144	0	0	0	0	0	0	0	0	0	10,385
302002	Los Gatos Creek Erosion Repairs	312	310	218	0	0	0	0	0	0	0	0	0	0	841
302003	Los Gatos Creek at Gilgen	0	0	188	620	510	0	0	0	0	0	0	0	0	1,317
302902	Randol Creek Flood Risk Study	0	0	245	0	0	0	0	0	0	0	0	0	0	245
	Total	**47,571**	**59,894**	**48,966**	**6,238**	**24,819**	**265**	**226**	**3,348**	**0**	**0**	**0**	**0**	**0**	**191,327**
	Total (with inflation)	**47,571**	**59,894**	**48,966**	**6,238**	**27,120**	**298**	**262**	**3,997**	**0**	**0**	**0**	**0**	**0**	**194,346**
	15-Yr Investment		**59,894**	**55,204**					**31,677**						**146,775**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are four categories of revenue available to the Guadalupe Watershed for funding capital projects. These categories of revenue include debt financing, available annual revenue, partnerships, and capital reserve.

DEBT FINANCING

In the year 2000, the Guadalupe Watershed Fund issued Certificates of Participation (COPs) in the amount of $10 million to finance its capital improvement program. The COP proceeds were nearly completely used on the Downtown Guadalupe River Project in FY 2000.

AVAILABLE ANNUAL REVENUE

For the next several years, the Guadalupe Watershed Fund will have approximately $1 million each year in available annual revenue for its capital program.

PARTNERSHIPS

Downtown Guadalupe River Project is a cooperative project with the costs of the project shared by the Corps of Engineers (COE), State of California (State), City of San Jose (City), San Jose Redevelopment Agency (Agency), and District (Guadalupe Watershed Fund). The cost-sharing formula is based on the principles stipulated in the 1992 Local Cooperative Agreement, 2001 Section 215 agreement, the 1992 Agreement with the City/Agency for sharing costs and obligations, and the State Subventions Program.

COE—Responsible for the cost of flood management and mitigation elements including portions of the Guadalupe Creek Restoration Project, but no less than 50 percent of the total project costs. The COE's share of the project is currently estimated to be $128.7 million including up to $5 million for the Guadalupe Creek Restoration Project.

City and Agency—Responsible for the costs of recreation and trail elements, currently estimated to be $15.8 million. However, as the local sponsor for the project, the District has been advancing such costs for the recreation and trails elements to be included in the COE's construction contracts, and anticipates reimbursement from the City and Agency. The Guadalupe Watershed Fund anticipates receiving the $15.8 million reimbursement in FY 2002.

District (Guadalupe Watershed Fund)—Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup, and other nonfederal responsibilities such as project management, but no more than 50 percent of the total project costs. The District's share of the project is currently estimated to be $102.5 million. Of this amount, $15.8 million will be reimbursed by the City/Agency and up to 70 percent of the balance, $86.7 million, is eligible for reimbursement from the State Subventions Program.

State—Through its Subventions Program, the State has a commitment to reimburse the District for 70 percent of local project costs including right of way acquisition, utility relocation, and bridge reconstruction. The State's share is estimated to be $60.7 million. As of April 2001, the Guadalupe Watershed Fund has received $18.8 million from the State Subventions Program, anticipates receiving $21.8 million in FY 2002, and $20.1 million in the future.

CAPITAL RESERVE

The Guadalupe Watershed Fund will have accumulated approximately $2.6 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		48,966	6,238	27,120	298	262	3,998	0	0	0	0	0	0	0	0	0
Funding Sources																
Debt Financing		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Available Annual Revenue		2,404	1,101	1,776	189	86	61	(133)	(232)	(329)	(388)	(450)	(517)	(589)	(665)	(747)
Partnerships (See appendix for details)		47,350	5,000	7,000	7,000	6,100	0	0	0	0	0	0	0	0	0	0
Total Funding Sources		49,754	6,101	8,776	7,189	6,186	61	(133)	(232)	(329)	(388)	(450)	(517)	(589)	(665)	(747)
Balance Increase (decrease) to Capital Reserve		787	(136)	(18,345)	6,891	5,924	(3,937)	(133)	(232)	(329)	(388)	(450)	(517)	(589)	(665)	(747)
Capital Reserve		2,595	3,382	3,246	(15,099)	(8,208)	(2,284)	(6,221)	(6,353)	(6,586)	(6,915)	(7,303)	(7,754)	(8,271)	(8,860)	(9,525)
Increase (decrease) to Capital Reserve		787	(136)	(18,345)	6,891	5,924	(3,937)	(133)	(232)	(329)	(388)	(450)	(517)	(589)	(665)	(747)
Designated for Future Years Capital Reserve	2,595	3,382	3,246	(15,099)	(8,208)	(2,284)	(6,221)	(6,353)	(6,586)	(6,915)	(7,303)	(7,754)	(8,271)	(8,860)	(9,525)	(10,273)

Guadalupe River
Union Pacific Railroad to Highway 880

Project Number:
301511

Sponsoring Division:
Watershed Management

Project Managers:
Planning: Dennis Cheong
Design: Ngoc Nguyen

OVERVIEW

OBJECTIVES

- Eliminate the potential for flood damage to people and to property during a 1 percent flood event along the lower Guadalupe River.
- Reduce bank erosion and sedimentation-related impacts along the lower Guadalupe River.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore some of the lost historic functions and value of the riparian corridor where feasible.
- Provide long-term riparian habitat improvement to offset impacts that result from the construction of flood control facilities.
- Provide mitigation for unavoidable adverse impacts on environmental resources.
- Provide opportunities to protect and enhance the existing wetlands and riparian habitat, and improve conditions favoring Chinook salmon and steelhead trout.
- Provide wherever possible a continuous maintenance access along the river, which can be used as a trail.
- Identify potential project impacts on Alviso and bayland areas and mitigate for unavoidable adverse impacts.
- Specify Best Management practices to protect water quality.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project investigates flood capacity, sedimentation, and maintenance problems along approximately 6 miles of the lower Guadalupe River, from Union Pacific Railroad in Alviso to Highway 880. The project evaluates different alternatives, and recommends a solution that would best satisfy the project objectives; prepares environmental and engineer's reports; obtains the necessary permits; designs, prepares plans and specifications, and provides construction support to implement the recommended solution.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated from the construction of this project and will be determined during the planning phase.

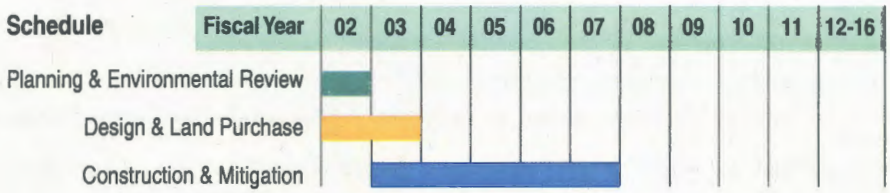
INITIATION AND COMPLETION DATES

2000 to June 2007

POTENTIAL COST SHARING

None

SCHEDULE



The project will protect residents and businesses in the cities of San Jose and Santa Clara that are located adjacent to the river. It will also preserve and enhance fish and migratory–bird habitat and protect endangered species from flood flows.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
301511	Guadalupe River Lower UPRR–I-880	11,656	39,307	789	559	20,259	75	75	3,348	0	0	0	0	0	76,068

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
301513, 301514, 301515
301516, 301517

Sponsoring Division:
Watershed Management

Project Manager:
Joe Chen

OVERVIEW

OBJECTIVES

- Provide 1 percent flood protection to downtown San Jose's technology and commercial industries and residential neighborhoods.
- Protect and improve water quality of the river.
- Preserve and enhance the river's habitat, fish and wildlife.
- Provide recreational and open space benefits in cooperation with the Army Corps of Engineers (Corps), City of San Jose and San Jose Redevelopment Agency.

BENEFITS

- Policy E-1, Article 1.1.6 – "Water recycling within Santa Clara County is expanded."
- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 2.1 – "Watersheds, streams and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This is a cooperative project with the U.S. Army Corps of Engineer (COE), State of California, City of San Jose, San Jose Redevelopment Agency and the District. The COE and District will implement project work. The COE is responsible for planning, design, and construction of the flood protection mitigation, recreation and trails element. The District is responsible for right-of-way acquisitions, utility relocations, and bridge construction. The cost of the project is shared by several agencies, per the "Partnership" section of the Guadalupe Watershed Fund information in the Capital Improvement Plan.

This effort is accounted for in the following job numbers:

301513 = Guadalupe River, Hwy 880 to Heading
301514 = Guadalupe River, Hedding to Coleman
301515 = Guadalupe River, Coleman to Santa Clara
301516 = Guadalupe River, Santa Clara to Park
301517 = Guadalupe River, Woz Way to Hwy 280

OPERATING BUDGET IMPACTS

Operating budget impacts are being determined and will be reported in the near future. The District's long-term monitoring responsibility starts in fiscal year 2006, upon completion of construction, and will be funded by operations.

INITIATION AND COMPLETION DATES

August 2000 to December 2005

POTENTIAL COST SHARING

Yes

Partnering Agencies: U.S. Corps of Engineers (COE), City of San Jose, San Jose Redevelopment Agency (Agency), State of California, and the District.

Cost Sharing Formula: Refer to the "Partnership" section of the Guadalupe Watershed Fund on pages 34–35.

Reimbursement Schedule:
City and Agency reimbursement – $15.8 million in FY 2002
State subventions reimbursement – $41.9 million from FY 2002 to FY 2006

Flooding in Downtown San Jose near St. John Street.

Flooding in Downtown San Jose near the San Jose Arena

Project Limits

1 Percent Floodplain

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
301513	Guadalupe River Downtown 880-Hedding	748	476	119	87	0	0	0	0	0	0	0	0	0	1,430
301513	Guadalupe River Downtown Hedding-Coleman	9,742	1,765	341	392	0	0	0	0	0	0	0	0	0	12,240
301515	Guadalupe River Downtown Coleman-Santa Clara	9,190	8,403	42,565	2,268	900	70	57	0	0	0	0	0	0	63,454
301516	Guadalupe River Downtown Santa Clara-Park	8,613	1,580	2,164	1,792	1,950	60	47	0	0	0	0	0	0	16,206
301517	Guadalupe River Downtown Woz-280	6,927	127	403	376	1,200	60	47	0	0	0	0	0	0	9,141
Total		35,221	12,351	45,592	4,915	4,050	190	151	0	0	0	0	0	0	102,471

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
The amount shown in the Cost Chart is estimated costs for District and City/Agency share of the total project costs and does not include the COE's share.

Guadalupe Creek Restoration

Almaden Expressway to Masson Dam

Project Number:
301525

Sponsoring Division:
Watershed Management

Project Manager:
Al Gurevich

OVERVIEW

OBJECTIVES

- The Guadalupe Creek Restoration project is intended to enhance and restore Guadalupe Creek, from Almaden Expressway to Masson Dam and to offset environmental impacts associated with the downtown Guadalupe Flood Management Project and future District Projects.

BENEFITS

- Policy E-1, Article 2.1 – "Watersheds, streams and the natural resources therein are protected and, when appropriate, enhanced or restored."

SCOPE OF WORK

The scope includes planning, design, preparation of plans and specifications, and providing construction support for Guadalupe Creek Restoration project, between Almaden Expressway and Masson Dam.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated from the construction of this project and will be determined in fiscal year 2002.

INITIATION AND COMPLETION DATES

December 1998 to December 2002. Project planning was initiated in summer 1998, responding to the Guadalupe River Collaborative process. Construction is scheduled to begin mid-summer 2001 and be completed by December 2001, with minor close out activities ending in July 2002.

POTENTIAL COST SHARING

Yes.

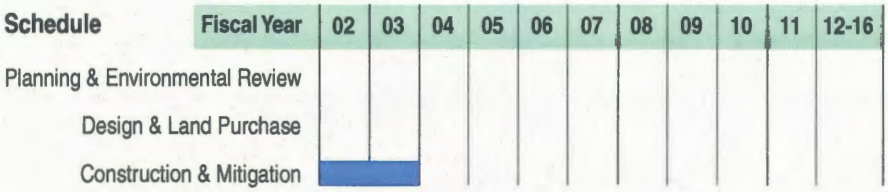
Partnering Agencies: U.S. Army Corps of Engineers (COE) and the District.

Cost Sharing Formula: The COE is responsible for up to $5 million as stipulated in the Section 215 agreement.

Reimbursement Schedule: A reimbursement of $5 million is planned for fiscal year 2003.

Typical erosion site along Guadalupe Creek.

SCHEDULE



Guadalupe Creek upstream of Meridian Bridge, in the City of San Jose, California.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
301525	Guadalupe Creek Restoration	382	7,925	1,935	144	0	0	0	0	0	0	0	0	0	10,385

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. The amount shown in the Cost Chart is the estimated total project costs including both the District's and the COE's shares.

Project Number:
302002

Sponsoring Division:
Watershed Management

Project Manager:
Ngoc Nguyen

OVERVIEW

OBJECTIVES

- Restore the eroded creek bank adjacent to the Kirk-Page Turnout to its original location and provide earth cover to the Central Pipeline.
- Implement erosion control measure.
- Repair damaged concrete on the Kirk-Page Turnout Structure.
- Identify opportunities to plant trees and vegetation for shaded riverine aquatic (SRA) habitat.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 1.2.2.2 – "There is clean, safe water in our creeks and bays."
- Policy EL-1.6 – "The CEO/GM shall not allow assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This is a corrective maintenance project. The scope of work consists of investigating the current physical condition of the eroded creek bank and adjacent areas and to develop and evaluate erosion control measures to restore the eroded creek bank and protect the Central Pipeline. Obtain permits and California Environmental Quality Act clearance. Prepare plans and specifications for advertisement and construction.

OPERATING BUDGET IMPACTS

Completion of this project will eliminate bank erosion in this area and will reduce the deposition of eroded soil downstream. As a result, it is anticipated that future sediment removal costs will be reduced. However, it is difficult to quantify the reduction.

INITIATION AND COMPLETION DATES

October 1997 to December 2001

POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

This erosion project will restore the eroded creek bank adjacent to Kirk Page Turnout to its original location and provide earth cover to the central pipeline.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
302002	Los Gatos Creek Erosion Repairs	312	310	218	0	0	0	0	0	0	0	0	0	0	841

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
302003

Sponsoring Division:
Watershed Management

Project Manager:
Ngoc Nguyen

OVERVIEW

OBJECTIVES

- To estimate the local conditions to the Gilgen Property vicinity, downstream end of gabion bank to junction of historic Los Gatos Creek Channel, as they pertain to channel and bank erosion, and channel bottom incision; and to investigate possible causes of the gabion bank collapse.
- To identify and develop alternative repairs that address the Boards End's Policy, providing sufficient detail to produce conceptual plans, schedules and cost estimates, environmental impact analysis and California Environmental Quality Act documentation, and a Engineer's Report accordingly with District Ordinances.
- An Interim Operations and Maintenance Plan, to assure Public Safety is being planned for fall 2001.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 1.2.2.2 – "There is clean, safe water in our creeks and bays."
- Policy EL-1.6 – "The CEO/GM shall not allow assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project will investigate and evaluate the existing hydraulic and geotechnical conditions of Los Gatos Creek between Lincoln Ave and Meridian Avenue; identify the causes of bank/gabion wall failure; and implement a corrective measure to ensure long-term safe performance of the bank.

OPERATING BUDGET IMPACTS

Completion of this project will eliminate bank erosion in this area and will reduce the deposition of eroded soil downstream. As a result, it is anticipated that future sediment removal costs will be reduced. However, it is difficult to quantify the reduction.

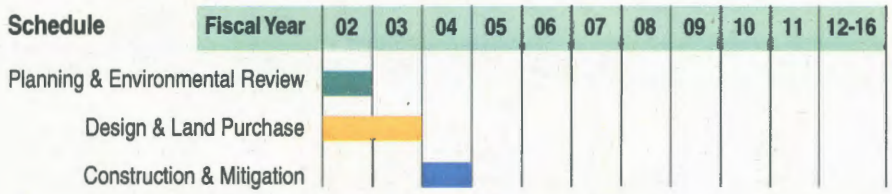
INITIATION AND COMPLETION DATES

January 2001 to October 2003.

POTENTIAL COST SHARING

None

SCHEDULE



Repair approximately 150 feet of failed gabion structure in area adjacent to the Gilgen property.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
302003	Los Gatos Creek at Gilgen	0	0	188	620	510	0	0	0	0	0	0	0	0	1,317

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
302902

Sponsoring Division:
Watershed Management

Project Manager:
Ngoc Nguyen

OVERVIEW

OBJECTIVES

- To identify any loss of capacity from the as-built condition on Randol Creek and determine the level of flood risk.

BENEFITS

- Policy E-1, Article 1.2 – "There is reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And "...9. Fail to protect water rights, rights of way, and flood control facilities.

SCOPE OF WORK

This project investigates the current capacity of Randol Creek. The work will include topographic surveys on Randol creek, development of a hydraulic model for the creek, and preparation of profile sheets showing the existing conditions with water surface profiles.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from this study.

INITIATION AND COMPLETION DATES

July 2001 to June 2002 (completed study).

POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

At Camden Avenue looking upstream at the reach of Randol Creek Flood Study Project.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
302902	Randol Creek Flood Risk Study	0	0	245	0	0	0	0	0	0	0	0	0	0	245

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

COYOTE WATERSHED

Santa Clara Valley Water District

COYOTE WATERSHED FUND

OVERVIEW

The Coyote Watershed Fund (Fund) is a special revenue fund, initially established to account for the East Flood Control Zone ad valorem tax and later included Benefit Assessment revenues, last approved in 1986 by voters within the Coyote Watershed. The Benefit Assessment revenue is restricted to finance only flood management activities, including operation programs and the capital improvement program, within the watershed.

The Coyote Watershed, the largest in Santa Clara County, includes the City of Milpitas and east and southeast portions of the City of San Jose.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Coyote Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS—COMPLETED

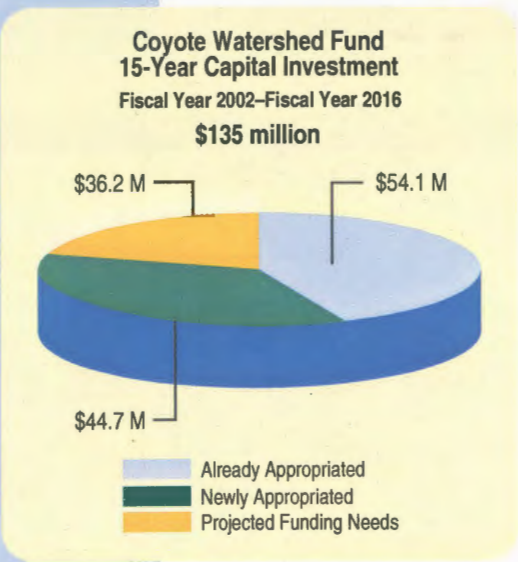
- Coyote Creek from San Francisco Bay to Montague Expressway
- Wrigley Ford Pump Station
- Lower Penitencia Creek from Coyote Creek to Tasman Drive

MAJOR PROJECTS—CURRENT

- Berryessa Creek from Lower Penitencia Creek Confluence to Calaveras Boulevard
- Calera Creek from Berryessa Creek Confluence to Highway 680
- Calera Creek at Union Pacific Railroad
- Coyote Creek Outdoor Classroom
- Coyote Creek at South Bay Mobile Home Park
- Coyote Creek at Rockspring Neighborhood
- Lower Silver Creek from Coyote Creek Confluence to Cunningham Avenue
- Silver/Thompson Creek from Cunningham Avenue to Aborn Road
- Upper Penitencia Creek from Coyote Creek Confluence to Dorel Drive

MAJOR PROJECTS—FUTURE

No future project identified at this time.



The estimated fifteen-year capital investments, from FY 2002 to FY 2016, to complete the current and future capital projects is $135 million, with $54.1 million already appropriated by the Board of Directors in previous years, $44.7 million newly appropriated for FY 2002 and 2003, and $36.2 million projected funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
401704	Berryessa Creek Lower Penitencia-Calaveras Blvd.	1,731	1,245	564	7,389	257	147	0	0	0	0	0	0	0	11,333
401801	Calera Creek Berryessa-I 680	151	62	39	27	0	0	0	0	0	0	0	0	0	279
401802	Calera Creek at UPRR	268	218	279	0	0	0	0	0	0	0	0	0	0	765
402108	Coyote Creek SF Bay to Montague Reimbursable	23,925	999	58	0	0	0	0	0	0	0	0	0	0	24,981
402118	Coyote Creek Outdoor Classroom	638	7	109	0	0	0	0	0	0	0	0	0	0	754
402119	Coyote Creek So Bay Mobile Home Floodwall	36	1,848	121	0	0	0	0	0	0	0	0	0	0	2,005
402120	Coyote Creek at Rockspring	5	223	734	45	4,034	34	10	0	0	0	0	0	0	5,085
402601 through 402609	Lower Silver Creek	11,077	38,482	17,677	4,340	573	2,670	220	198	178	112	0	0	0	75,527
402610	Silver/Thompson Creeks Cunningham-Aborn	82	882	4,468	1,138	0	0	0	0	0	0	0	0	0	6,570
403203 through 403205	Upper Penitencia Creek Coyote-Dorel (Corps)	7,005	10,081	7,541	194	155	155	352	2,165	6,178	6,178	6,178	0	0	46,184
	Total	**44,920**	**54,046**	**31,590**	**13,133**	**5,019**	**3,005**	**582**	**2,363**	**6,356**	**6,290**	**6,178**	**0**	**0**	**173,483**
	Total (with inflation)	**44,920**	**54,046**	**31,590**	**13,133**	**5,485**	**3,383**	**675**	**2,822**	**7,817**	**7,968**	**8,061**	**0**	**0**	**179,930**
	15-Yr Investment		**54,046**	**44,723**						**36,211**					**134,980**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are four categories of revenue available to the Coyote Watershed for funding capital projects. These categories of revenue include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

In 2000, the Coyote Watershed Fund issued Certificates of Participation (COPs) in the amount of $27 million to finance its capital improvement program. It is projected that all the COP proceeds will be expended by FY 2003.

AVAILABLE ANNUAL REVENUE

For the next fifteen years, the Coyote Watershed Fund will have approximately $200,000 to $2 million each year in available annual revenue for its capital program.

PARTNERSHIPS

A summary of partnership and cost-sharing information is presented on the following two pages.

CAPITAL RESERVE

The Coyote Watershed Fund will have accumulated approximately $4 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		31,590	13,133	5,485	3,383	675	2,822	7,817	7,968	8,061	0	0	0	0	0	0
Funding Sources																
Debt Financing		10,000	10,000	0	0	0	0	0	0	0	0	0	0	0	0	0
Available Annual Revenue		2,184	1,504	236	592	257	211	655	1,079	1,142	863	693	617	639	662	687
Partnerships (See Appendix for details)		19,385	0	2,732	0	0	1,939	17,722	6,910	7,118	0	0	0	0	0	0
Total Funding Sources		31,569	11,504	2,968	592	257	2,150	18,377	7,989	8,260	863	693	617	639	662	687
Balance Increase (decrease) to Capital Reserve		(21)	(1,629)	(2,518)	(2,791)	(418)	(671)	10,560	21	200	863	693	617	639	662	687
Capital Reserve		4,067	4,046	2,416	(101)	(2,892)	(3,310)	(3,981)	6,579	6,600	6,799	7,662	8,355	8,972	9,611	10,273
Increase (decrease) to Capital Reserve		(21)	(1,629)	(2,518)	(2,791)	(418)	(671)	10,560	21	200	863	693	617	639	662	687
Designated for Future Years Capital Reserve	4,067	4,046	2,416	(101)	(2,892)	(3,310)	(3,981)	6,579	6,600	6,799	7,662	8,355	8,972	9,611	10,273	10,960

PARTNERSHIPS
Coyote Creek from San Francisco Bay to Montague Expressway

Coyote Creek from San Francisco Bay to Montague Expressway is a cooperative project, with the costs of the project shared by the Army Corps of Engineers (COE), State of California (State), and the District (Coyote Watershed Fund). The cost-sharing formula is based on the principals stipulated in the 1994 Project Cooperative Agreement with the COE and the State of California Subventions Program.

COE—Responsible for the cost of flood management and mitigation elements, but no less than 50 percent of the total project costs. As of the end of FY 2001, the COE has paid approximately $23 million of the estimated total project costs of $62 million. In addition, the COE has paid $7 million in cash to the District. A final COE accounting is taking place early in FY 2002.

District (Coyote Watershed Fund)—Responsible for the cost of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup, but no more than 50 percent of the total project costs. As of end of FY 2001, the District has paid approximately $39 million of the estimated total project cost of $62 million. The COE has reimbursed approximately $7 million of the District's $39 million, in keeping with its 50 percent contribution commitment.

State—Through its Subventions Program, the State will reimburse the District for 70 percent of the District costs, approximately $22.4 million. As of April 30, 2001, the Coyote Watershed Fund has received approximately $11.3 million from the State Subventions Program, and anticipates receiving approximately $11.1 million in FY2002.

PARTNERSHIPS
Coyote Creek at Rockspring

Coyote Creek at Rockspring is a cooperative project, with the costs shared by the Army Corps of Engineers (COE) and the District (Coyote Watershed Fund). The cost-sharing formula will be based on Section 205 principals stipulated in the 1948 Flood Control Act, as modified by the 1999 Water Resources Development Act.

COE—Responsible for the cost of flood management and mitigation elements, but no less than 50 percent or more than 65 percent of the total project cost. Estimated feasibility study cost is $1.2 million and estimated construction cost is $5 million. It is assumed the COE will pay $620,000 for the feasibility study and $2.5 million for construction.

District (Coyote Watershed Fund)—Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup, at least 35 percent but no more than 50 percent of the total project cost. The District's estimated share is $2.5 million for construction and $580,000 for the feasibility study.

Lower Silver Creek from Coyote Creek Confluence to Lake Cunningham is a cooperative project, with costs shared by the Natural Resources Conservation Service (NRCS), the State of California (State), and the District (Coyote Watershed Fund). The cost-sharing formula is based on the principals stipulated in the 2001 Watershed Agreement and State Subventions Program.

PARTNERSHIPS

Lower Silver Creek from Coyote Creek Confluence to Lake Cunningham

NRCS—Of the total project cost ($75.5 million), NRCS is responsible for the costs of flood management and mitigation elements for Reaches 1-6 of the Lower Silver Creek Project (Coyote Creek Confluence to Lake Cunningham) currently estimated to be $59.3 million. However, because Congress has not appropriated funds at requested levels, NRCS indicated it will place a 10-year sunset clause in all subsequent project agreements (necessary for each construction contract). This sunset clause will state that, if Congress does not appropriate funds within ten years, NRCS will no longer be responsible for cost-sharing project improvements. Therefore, the Coyote Watershed Fund assumes advancing the NRCS portion ($59.3 million) without reimbursement.

District (Coyote Watershed Fund)—Responsible for the right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup for the entire Lower Silver Creek Project. The District share is estimated to be $16.2 million.

State—Through its Subventions Program, the State will reimburse the District (Coyote Watershed Fund) for 75 percent of the District's right-of-way costs and 90 percent of the District's utility relocation costs. Of the District's costs, estimated to be $16.2 million (see above), approximately $11.1 million is estimated to be reimbersable from the State. As of April 30, 2001, the Coyote Watershed Fund has received $200,000 from the State Subventions Program, anticipates $1.6 million in FY 2002, and $9.3 million in the future. Since the funding outlook for State Subventions is uncertain, the $9.3 million future reimbursement is not included in the Coyote Watershed Fund Capital Funding Sources.

Upper Penitencia Creek from Coyote Creek Confluence to Dorel Drive is planned to be a cooperative project, with costs shared by the Corps of Engineers (COE), State of California (State), and the District (Coyote Watershed Fund). The COE is preparing a Feasibility Study that will determine if there is a federal interest in proceeding to project cooperative agreement with the District. The District is cost sharing 50 percent of the $1.495 million Feasibility Study. The COE has authorized the District to design and construct a portion of the project in advance pursuant to Section 104 of the Water Resources Development Act of 1986. For financial planning purposes, the following cost-sharing formula is assumed.

PARTNERSHIPS

Upper Penitencia Creek from Coyote Creek Confluence to Dorel Drive

COE—Responsible for the cost of flood management and mitigation elements, but no less than 50 percent of the total project cost. The total project cost is $46.2 million. ($46.2 million includes the costs of the Section 104 reach which will be constructed by the District, but does not include the cost of Feasibility Study.) The COE share of the project is currently expected to be more than 50 percent of the total project cost. The COE share is estimated to be $27 million.

District (Coyote Watershed Fund)—Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup, but no more than 50 percent of the total project cost. The District share is currently estimated to be $19 million.

State—Through its Subventions Program, the State will reimburse the District for 70 percent of the District costs (see above). The State reimbursement is estimated to be $13.4 million. Since the funding outlook for State Subventions is uncertain, the $13.4 million reimbursement is not included in the table (Source and Flow of Funds to Meet Projected Funding Needs).

Berryessa Creek
Lower Penitencia Creek to Calaveras Boulevard

Project Number: 401704

Sponsoring Division: Watershed Management

Project Manager: George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-year flood event.
- Mitigate for project impacts.
- Improve stream habitat values, and fisheries potential, as appropriate.
- Ensure existing levee system integrity.
- Integrate with and encourage local parks and trail projects, as feasible.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-2, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-2, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."
- Policy E-L-1.6 – "The CEO/GM staff shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

- Investigate current conditions of Berryessa Creek levees and hydraulic capacity of the channel downstream of Calaveras Boulevard. An Engineers Report and environmental document will be developed to define the existing problems and identify a preferred alternative for Board approval.
- Design, prepare plans and specifications and construct the Board-adopted alternative.
- Coordinate with the Cities of Milpitas and San Jose to incorporate trail projects, when feasible.

OPERATING BUDGET IMPACTS

Future operating budget impacts of the project will be determined during the planning phase.

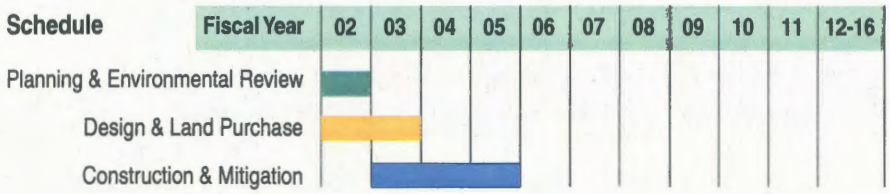
INITIATION AND COMPLETION DATES

January 1997 to October 2004.

POTENTIAL COST SHARING

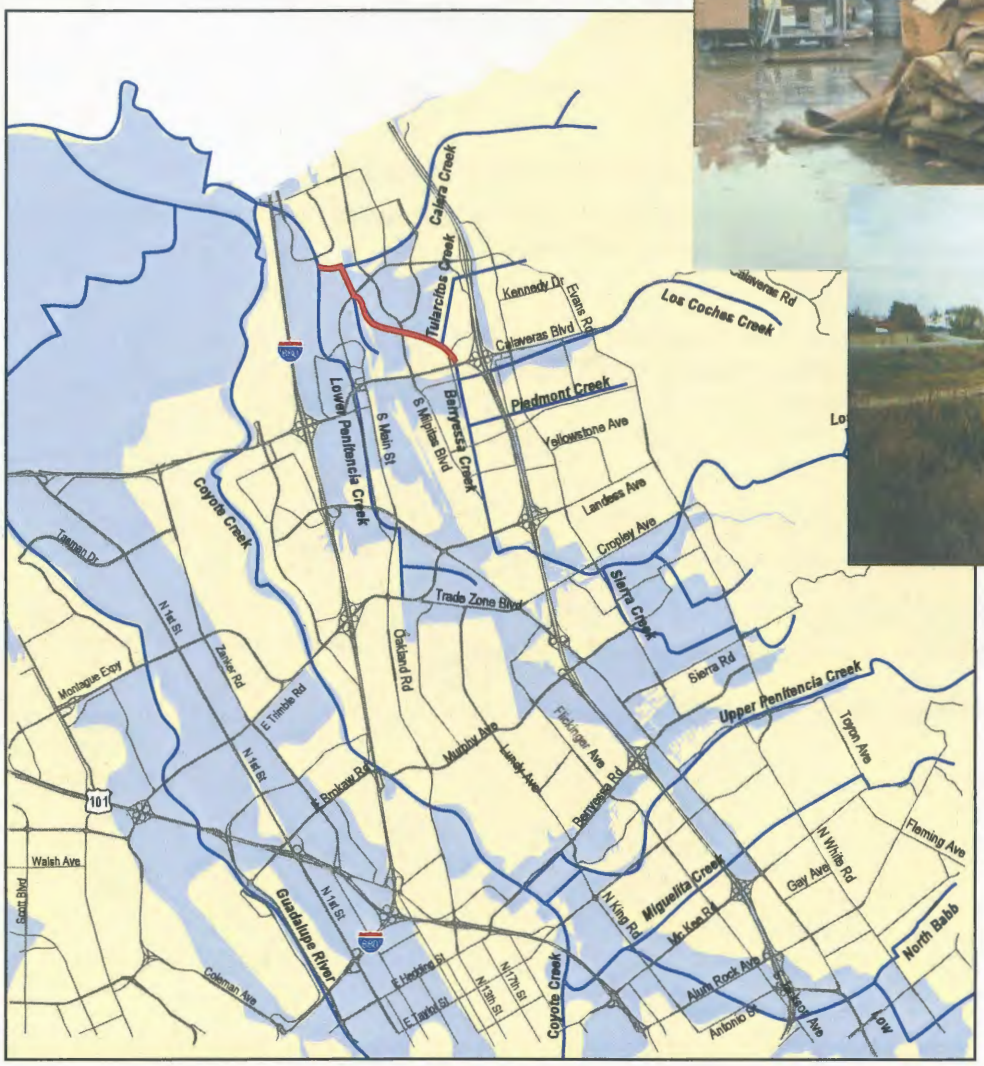
None

SCHEDULE



Business flood damage from Berryessa Creek flooding.

Berryessa Creek upstream of the confluence with Lower Penitencia.



COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
401704	Berryessa Creek Lwr Penitencia-Calaveras Blvd.	1,731	1,245	564	7,389	257	147	0	0	0	0	0	0	0	11,333

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Calera Creek

Berryessa Creek to Highway 680

Project Number:
401801

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Determine baseline channel capacity and flooding potential, sediment deposition, and maintenance requirements.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 2.1 – "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

This project will initially fund a reconnaissance study of Calera Creek to assess the flooding risk by determining the baseline channel capacity, sediment deposition and maintenance requirements. Further study or construction activity will be determined at the conclusion of the reconnaissance study. Funding for further activities will also be identified at that time.

OPERATING BUDGET IMPACTS

No operating budget impacts are anticipated at this time.

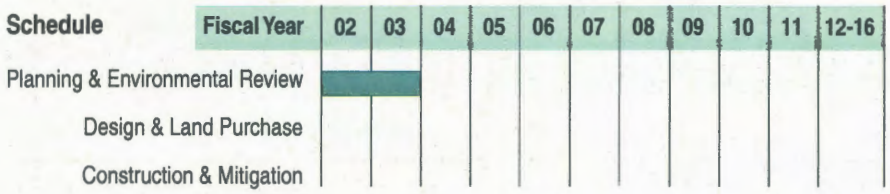
INITIATION AND COMPLETION DATES

January 2001 to June 2003. (Reconnaissance Study Phase)

POTENTIAL COST SHARING

None

SCHEDULE



Calera Creek, downstream of Arizona Avenue in Milpitas.

Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
401801	Calera Creek Berryessa Creek to I-680	151	62	39	27	0	0	0	0	0	0	0	0	0	279

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
401802

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide 100-year flood protection with freeboard consistent with District policy to protect California Landing development in Milpitas.
- Provide a maintenance crossing over Calera creek.
- Replace/repair damaged sacked-concrete slope protection at the downstream end of the culvert under Union Pacific Railroad crossing.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-L-1.6 – "The CEO/GM staff shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

To design and prepare plans and specifications to tie the Berryessa and Calera levees, construct an access bridge, and replace damaged sack concrete slope protection. Obtain permits and CEQA clearance and construct project.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

October 1997 to March 2002

POTENTIAL COST SHARING

None

Looking upstream at Calera from UPRR.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation	■										

Temporary sandbag wall along Calera Creek at UPRR. Installed after flooding of 1997.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
401802	Calara Creek at UPRR	268	218	279	0	0	0	0	0	0	0	0	0	0	765

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Coyote Creek

San Francisco Bay to Montague
Reimbursable

Project Number:
402108

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Fulfill the District's local sponsor obligations for the Army Corps of Engineers' (COE) Coyote Creek Flood Protection Project from San Francisco Bay to Montague Expressway.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 2.1 – "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

The project provides funds for the District to complete right-of-way acquisition, utility relocation and bridge reconstruction work associated with the COE's Coyote Creek Flood Protection Project from San Francisco Bay to Montague Expressway. Work is mostly complete, with a remaining task of removing the mud wave in Salt Pond A-18 to comply with conditions stipulated in the Cargill Salt right-of-way agreement.

OPERATING BUDGET IMPACTS

No additional operating budget impacts are anticipated as the District has already assumed operations and maintenance responsibility from the COE.

INITIATION AND COMPLETION DATES

April 1982 to June 2002

POTENTIAL COST SHARING

Yes

Partnering Agencies: COE, State of California and District

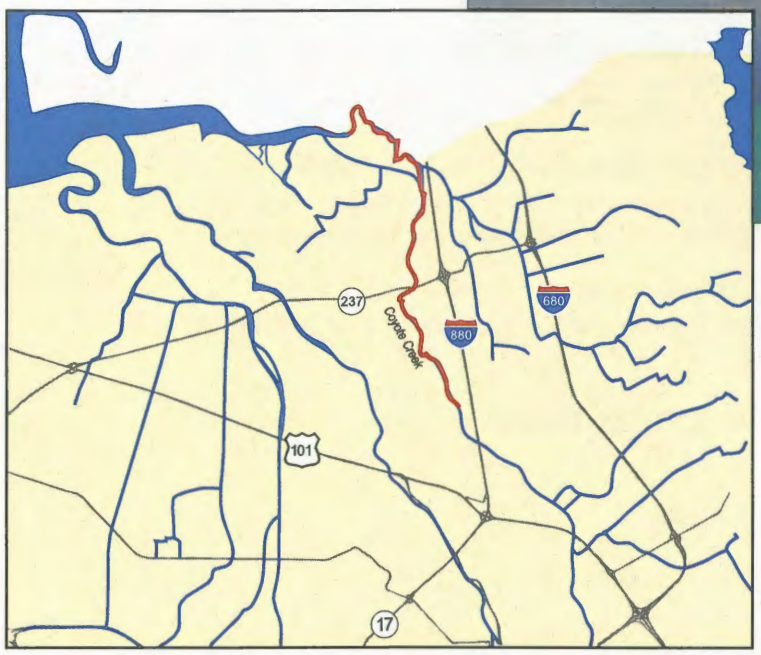
Cost Sharing Formula: As of FY 2001, the COE has paid its share of the total project costs. The State of California will reimburse 70 percent of the local project costs through its subventions program. Refer to "Partnerships" section of the Coyote Watershed Fund on page 52.

Reimbursement Schedule: As of April 30, 2001, the Coyote Watershed Fund received approximately $11.3 million from the State of California, and anticipates receiving $11.1 million in FY2002.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

Successful operation of completed Lower Coyote Creek project during 1997 high flows.



Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
402108	Coyote Creek SF Bay to Montague Expressway	23,925	999	58	0	0	0	0	0	0	0	0	0	0	24,981

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Note: This project was accomplished through several job numbers. The only remaining activities are in the above job. Work in other other job numbers is complete and those numbers have been closed. Costs included in those numbers are not included in the above Cost chart.

Project Number:
402118

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide nonstructural flood protection
- Provide a place for students to learn about the watershed
- Restore riparian habitat

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 2.1 – "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable."

SCOPE OF WORK

The scope includes preparation of a planning study, environmental documents and permits, design and preparation of plans and specifications to stabilize and revegetate part of the creek bank, replant the upland portion of the site, and construct an outdoor classroom.

OPERATING BUDGET IMPACTS

Operating budget impacts to maintain and operate the classroom are anticipated and will be determined in the near future.

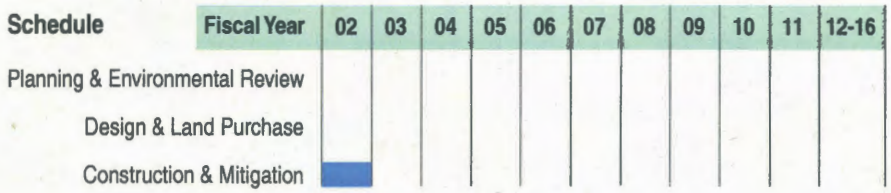
INITIATION AND COMPLETION DATES

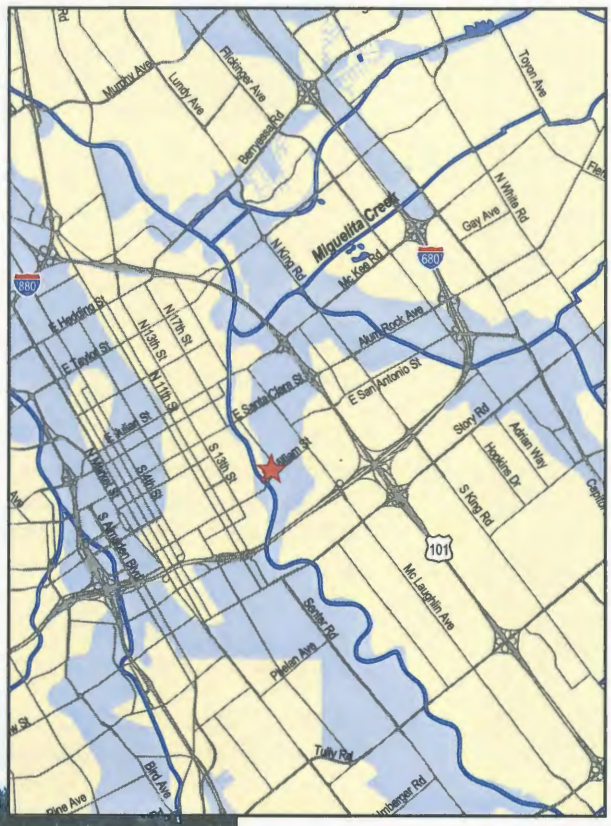
March 1997 to October 2001

POTENTIAL COST SHARING

None

SCHEDULE





Site of planned Coyote Creek Outdoor Classroom to be used for the District's school program.

★ Project Location

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
402118	Coyote Creek Outdoor Classroom	638	7	109	0	0	0	0	0	0	0	0	0	0	754

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
402119

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide flood protection to the residents of the South Bay Mobile Home Park

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."

SCOPE OF WORK

This project will replace the temporary sandbag structure that was constructed by the residents of the South Bay Mobile Home Park after the January 1997 flood event with a permanent floodwall. The residents constructed the 465-foot long sandbag structure parallel to the Union Pacific Railroad (UPRR) and in 1999 the City of San Jose (CSJ) shotcreted the sandbags in 1999. The shotcreted sandbag structure will be removed and a new floodwall will be constructed along the fenceline between the mobile home park property and the UPRR right of way.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

March 1997 to November 2001

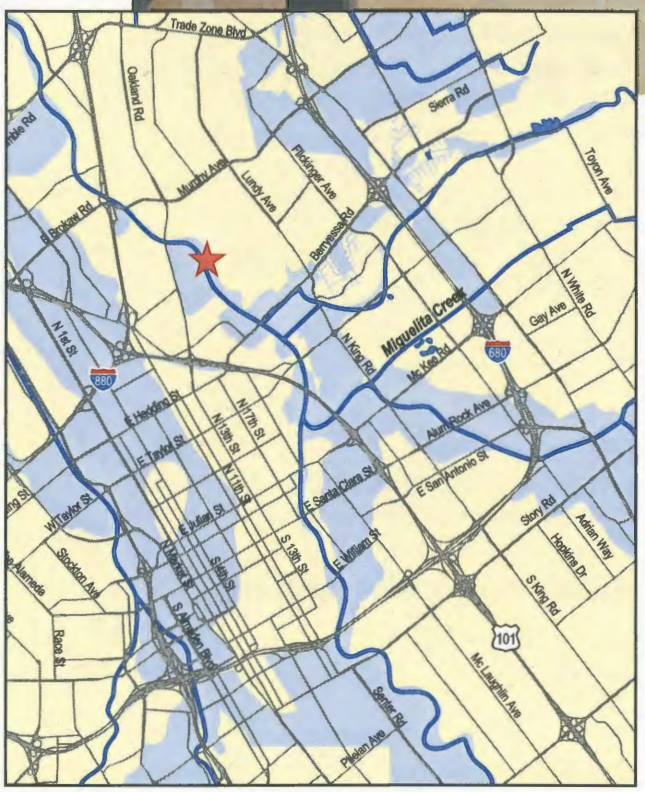
POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

Flooding in January 1997 at the South Bay Mobile Home Park.



★ Project Location

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
402119	Coyote Creek South Bay Mobile Home Floodwall	36	1,848	121	0	0	0	0	0	0	0	0	0	0	2,005

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
402120

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide 100-year flood protection to the Rockspring neighborhood.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 2.1 – "Watershed, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

This project is currently in the planning stage to identify structural flood protection measures to protect the residents of the Rockspring neighborhood. The two alternatives currently being considered are an embankment levee/floodwall and setback levee. An Engineer's Report will be developed by the Corps of Engineers to define the existing problems and develop a preferred alternative.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the planning phase.

INITIATION AND COMPLETION DATES

March 1997 to March 2006.

POTENTIAL COST SHARING

Yes

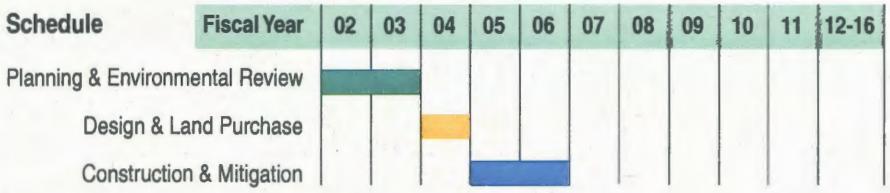
Partnering Agencies: Army Corps of Engineers and District

Cost Sharing Formula: The Corps of Engineers will reimburse the District for approximately 50 percent of project cost, currently estimated to be approximately $2.5 million.

Reimbursement Schedule: Approximately $2.5 million is currently estimated to be received in fiscal year 2004.

Flooding at Rockspring neighborhood.

SCHEDULE



Receding floodwaters at the Rockspring neighborhood, January 1997.

★ Project Location

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
402120	Coyote Creek at Rockspring	5	223	734	45	4,034	34	10	0	0	0	0	0	0	5,085

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. The amount shown in Cost Chart is the estimated total project costs, including both the District's and COE's share.

Project Number:
402601, 402603
402607, 402608, 401609

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-yr flood event.
- Mitigate for project impacts, improve stream habitat values and improve fisheries potential

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-2, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-2, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project will perform all necessary work to plan, design, acquire right of way, permit, and construct the 100-year level flood protection improvements, while improving stream values and habitat, between Coyote Creek and Cunningham Avenue. Work will be performed in partnership with the Natural Resource Conservation Service (NRCS).

This effort is accounted for in the following job numbers:

402601 = Reach 3, McKee Rd to I-680
402603 = Reach 1-2, Coyote Ck to McKee Rd
402607 = Reach 4, I-680 to N. Babb Creek
402608 = Reach 5-6, N. Babb Ck to Cunningham Ave
402609 = Reimbursable work (LERRDS), Coyote to Cunningham Ave

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined upon completion of the planning phase.

INITIATION AND COMPLETION DATES

January 1997 to October 2009, including 3-year plant reestablishment period.

POTENTIAL COST SHARING

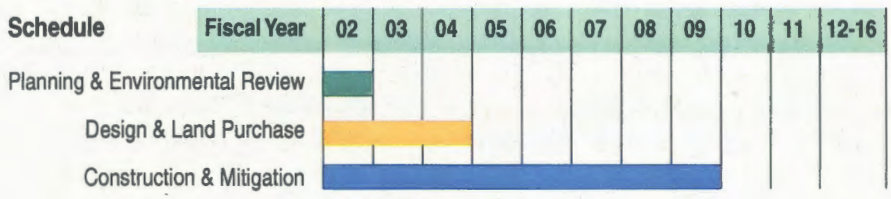
Yes

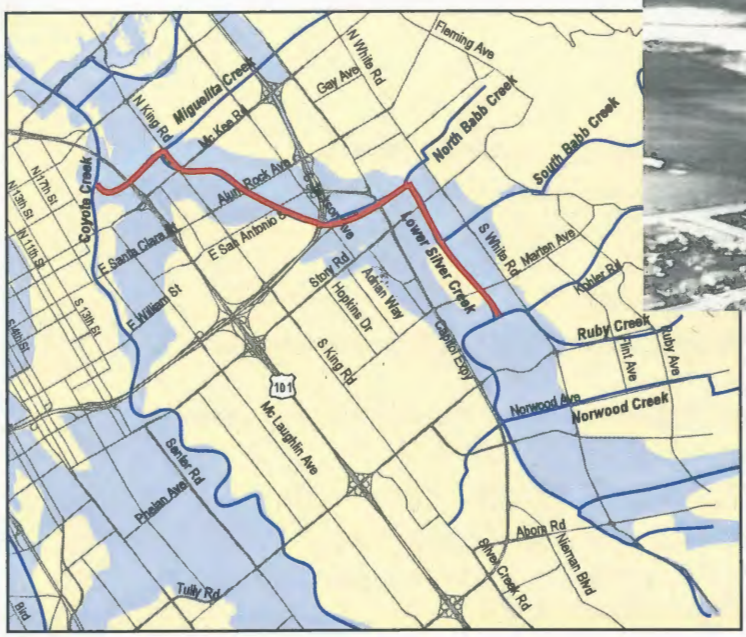
Partnering Agencies: NRCS, State of California, and District

Cost Sharing Formula: NRCS may reimburse the District for up to 50 percent of project cost. The State will reimburse approximately 75 percent of the District's right of way costs and 90 percent of the District's utility relocation costs. Refer to "Partnerships" section of the Coyote Watershed Fund on page 53.

Reimbursement Schedule: NRSC reimbursement – Undetermined.
State subventions reimbursement – $1.6 million in FY 2002

SCHEDULE





Flooding from Lower Silver Creek in San Jose in February 1969 at future site of Lake Cunningham.

Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
402601	Lwr Silver Creek McKee-680 (Reach 3)	1,895	10,911	0	0	0	0	0	0	0	0	0	0	0	12,806
402603	Lwr Silver Creek Coyote Creek-McKee (Reach 1-2)	2,013	12,797	2,116	112	140	75	67	60	55	0	0	0	0	17,435
402607	Lwr Silver Creek Highway 680-N. Babb (Reach 4)	975	1,557	4,245	2,924	69	125	72	65	58	53	0	0	0	10,143
402608	Lwr Silver Creek N. Babb-Cunningham (Reach 5-6)	3,033	6,855	6,039	114	135	2,470	81	73	65	59	0	0	0	18,924
402609	Lwr Silver Creek Coyote Creek-Cunningham (LERRDs)	3,161	6,362	5,277	1,190	230	0	0	0	0	0	0	0	0	16,220
Total		11,077	38,482	17,677	4,340	573	2,670	220	198	178	112	0	0	0	75,527

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. The amount shown in the Cost Chart is the estimated total project cost, including both NRCS's and the District's share.

Project Number:
402610

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Remove sediment from the creeks and restore to original design capacity.
- Improve the local drainage, which will reduce the potential of sediment deposition and local flooding during storm events.
- Mitigate impacts to wetlands.
- Evaluate the potential for fisheries restoration.
- Identify sources of sedimentation and evaluate alternatives to address sedimentation reaching Lake Cunningham.
- Evaluate stream stabilization and enhancement opportunities between Cunningham Avenue and Aborn Road.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-2, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."

SCOPE OF WORK

The scope of this project consists of two phases. Phase 1 is the removal of sediment in Lower Silver and Thompson Creeks between Cunningham Avenue and Quimby Road. Phase 1 environmental clearances will be obtained through the multi-year Stream Maintenance Program permitting process.

Phase 2 will consist of a watershed hydrology study and operational study of Lake Cunningham; planning, design and construction of any necessary improvements to Lake Cunningham to ensure that Lower Silver Creek functions as planned: Phase 2 environmental clearances will be obtained as part of NRCS's Lower Silver Creek Project.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

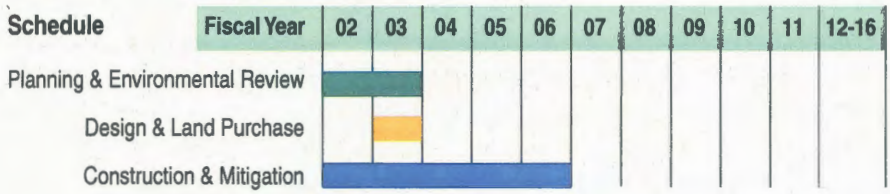
INITIATION AND COMPLETION DATES

August 2000 to October 2005.
Work in fiscal years 2004 through 2006 will be paid from prior years' appropriations.

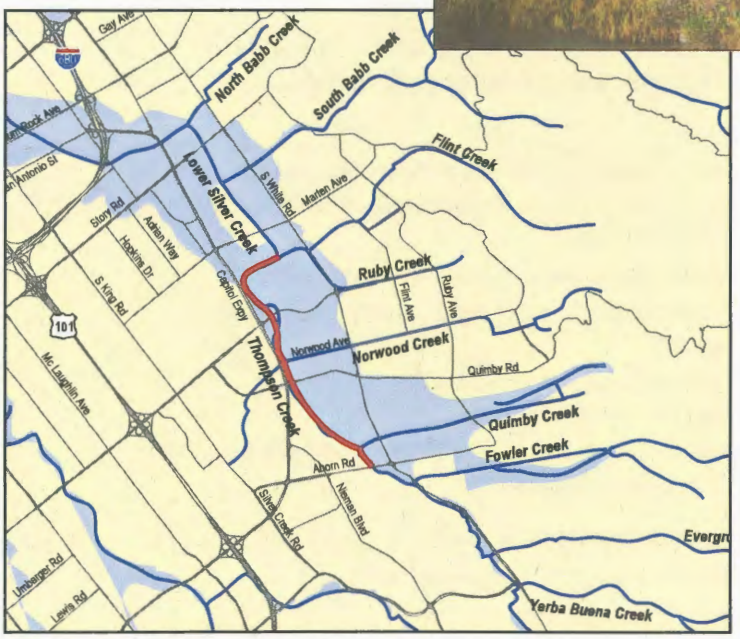
POTENTIAL COST SHARING

None

SCHEDULE



Thompson Creek, downstream of Quimby Road



Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
402610	Silver/Thompson Creeks Cunningham-Aborn	82	882	4,468	1,138	0	0	0	0	0	0	0	0	0	6,570

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
403203, 403204
403205

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-yr flood event.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Provide for recreation improvements consistent with the City of San Jose and Santa Clara County Parks Master Plans.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-2, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-2, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project will accomplish the following for the entire Upper Penitencia Creek project:

- District will prepare plans and specifications for, and construct the bypass channel between Coyote Creek and King Road.
- Corps will develop Feasibility Report and an EIR/EIS for the entire project.
- Corps will develop plans/specifications for all project components upstream of the District's bypass project.
- District will coordinate with the Corps and be responsible for LERRD's (acquisition of right of way, utility and bridge relocations).
- District will coordinate with the City of San Jose parks department and incorporate the trails master plan projects when feasible.

This effort is accounted for in the following job numbers:

403203 = District coordination with Corps for Corps' responsible work

403204 = Bypass channel from Coyote to King

403205 = District's LERRD responsibility from Coyote to Dorel

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the planning phase.

INITIATION AND COMPLETION DATES

January 2000 to June 2010.

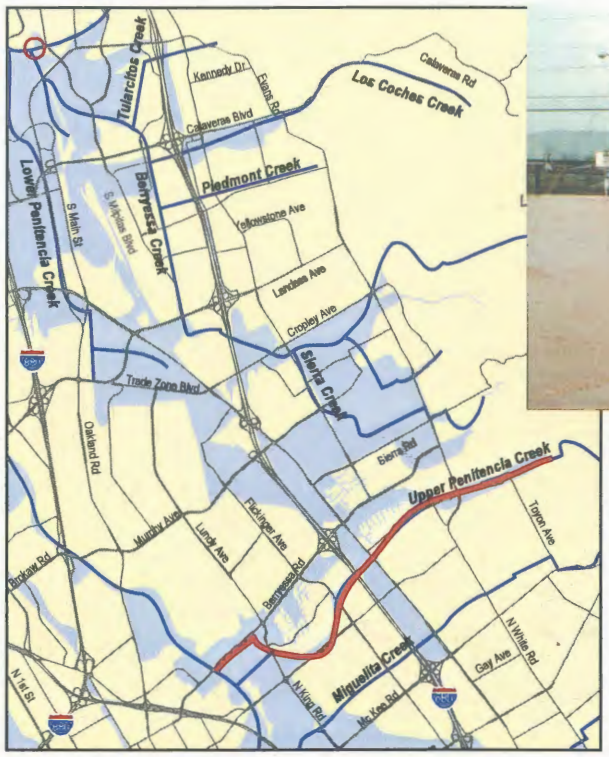
POTENTIAL COST SHARING

Yes

Partnering Agencies: Corps of Engineers, State of California, and District.

Cost Sharing Formula: The COE will pay for no less than 50 percent of the project cost. The State Subventions Program will reimburse 70 percent of District's share of the project costs. Refer to "Partnerships" section of Coyote Watershed Fund on page 53.

Reimbursement Schedule: COE reimbursement – $27 million from FY 2007 to FY 2010
State subventions reimbursement – Undetermined.



Project Limits

1 Percent Floodplain

Flooding from Upper Penitencia Creek at Maybury Road in March 1982.

Flooding from Upper Penitencia Creek at Lenfest Road in March 1982.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
403203	Upper Penitencia Creek, Coyote-Dorel (Corps)	5,167	2,057	49	151	155	155	155	2,165	6,178	6,178	6,178	0	0	28,590
403204	Upper Penitencia Creek, Coyote Creek-King	1,806	7,686	0	0	0	0	0	0	0	0	0	0	0	9,492
403205	Upper Penitencia Creek, Coyote-Dorel LERRDs)	32	338	7,492	43	0	0	197	0	0	0	0	0	0	8,102
Total		7,005	10,081	7,541	194	155	155	352	2,165	6,178	6,178	6,178	0	0	46,184

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
The amount shown in Cost Chart is the estimated total project cost, which is planned to be shared by COE and District.

UVAS/LLAGAS WATERSHED

Santa Clara Valley Water District

UVAS/LLAGAS WATERSHED FUND

OVERVIEW

The Uvas/Llagas Watershed Fund (Fund) is a special revenue fund. It was initially established to account for the South Flood Control Zone ad valorem tax and later included Benefit Assessment revenue, last approved in 1986 by voters within the Uvas/Llagas Watershed. The Benefit Assessment revenue is restricted to finance only the flood management activities, including operation programs and the capital improvement program within the watershed.

The Uvas/Llagas Watershed encompasses the south portion of the Santa Clara County including the community of San Martin and the Cities of Morgan Hill and Gilroy.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Uvas/Llagas Watershed Benefit Assessment included a clearly defined capital improvement program. Since 1986, the District has been working to implement the projects identified in the capital improvement program. Following is the implementation status:

MAJOR PROJECTS—COMPLETED

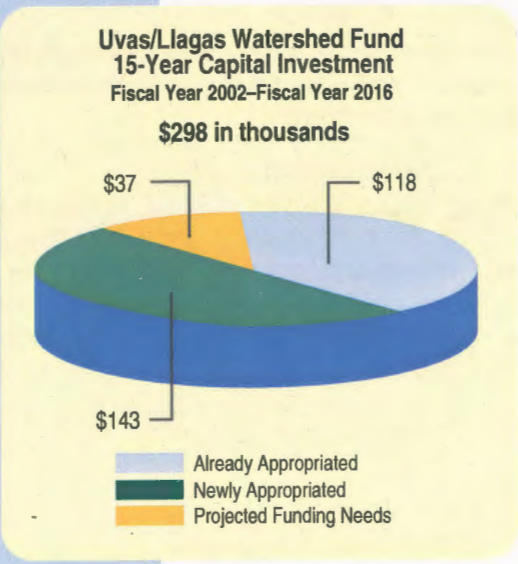
- Uvas Creek from Santa Teresa Boulevard to Thomas Road
- Lower Llagas Creek from Pajaro River Confluence to Buena Vista Avenue

MAJOR PROJECT—CURRENT

- Uvas/Llagas Vegetation Buffer Strips

MAJOR PROJECTS—FUTURE

No future project identified at this time.



The estimated fifteen-year capital investments, from FY 2002 to FY 2016, to complete the current and future projects is $298,000, with $118,000 already appropriated by the Board of Directors in previous years, $143,000 newly appropriated for FY 2002 and 2003, and $37,000 projected funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
502801 and 502803	Lower Llagas Creek	2,813	118	69	50	8	8	8	8	0	0	0	0	0	3,082
509001	Uvas/Llagas Creek Vegetation Buffer Strips	0	0	9	14	0	0	0	0	0	0	0	0	0	24
	Total	**2,813**	**118**	**79**	**64**	**8**	**8**	**8**	**8**	**0**	**0**	**0**	**0**	**0**	**3,106**
	Total (with inflation)	**2,813**	**118**	**79**	**64**	**9**	**9**	**9**	**10**	**0**	**0**	**0**	**0**	**0**	**3,111**
	15-Yr Investment		**118**	**143**						**37**					**298**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are three categories of revenue available to the Uvas/Llagas Watershed for funding capital projects. These categories of revenue include available annual revenue, partnerships and capital reserve.

AVAILABLE ANNUAL REVENUE

The Uvas/Llagas Watershed Fund is facing a challenge. As shown in the table below, beginning in FY 2003 the fund will have an annual short fall of approximately $600 thousands to $2.5 million, for continuously funding its operations at the current level of service. For planning purposes, it is assumed that the projected short fall will be met by available capital reserve, until the reserve is depleted. A plan will be developed to address the issue.

PARTNERSHIPS

Lower Llagas Creek from Pajaro River to Buena Vista Avenue is a cooperative project with the costs of the project shared by the Natural Resources Conservation Services (NRCS), State of California (State), and the District (Uvas/Llagas Watershed Fund). The cost-sharing formula is based on the principals stipulated in the 1965 Watershed Agreement, and the State Subventions Program.

NRCS—Responsible for the costs of flood management and mitigation elements. As of the end of FY 2001, NRCS has paid its share of the total project costs.

District (Uvas/Llagas Watershed Fund)—Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup. As of end of FY 2001, the District has paid its share of the total project cost.

State—Through its Subventions Program, the State reimburses the District for 100 percent of the District's costs (see above paragraph). The Uvas/Llagas Watershed Fund anticipates $1.66 million in reimbursements from the State in FY 2002, and $30,000 in the future.

CAPITAL RESERVE

The Uvas/Llagas Watershed Fund will have accumulated approximately $3.6 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		79	64	9	9	9	10	0	0	0	0	0	0	0	0	0
Funding Sources																
Debt Financing		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Available Revenue		571	(605)	(286)	(1,060)	(1,154)	(1,254)	(1,360)	(1,473)	(1,592)	(1,719)	(1,853)	(1,996)	(2,147)	(2,308)	(2,479)
Partnerships (See Appendix for details)		1,660	0	30	0	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources		2,231	(605)	(256)	(1,060)	(1,154)	(1,254)	(1,360)	(1,473)	(1,592)	(1,719)	(1,853)	(1,996)	(2,147)	(2,308)	(2,479)
Balance Increase (decrease) to Capital Reserve		2,153	(669)	(265)	(1,069)	(1,164)	(1,263)	(1,360)	(1,473)	(1,592)	(1,719)	(1,853)	(1,996)	(2,147)	(2,308)	(2,479)
Capital Reserve		3,640	5,793	5,124	4,859	3,790	2,626	1,363	3	(1,470)	(3,062)	(4,780)	(6,633)	(8,629)	(10,777)	(13,085)
Increase (decrease) to Capital Reserve		2,153	(669)	(265)	(1,069)	(1,164)	(1,263)	(1,360)	(1,473)	(1,592)	(1,719)	(1,853)	(1,996)	(2,147)	(2,308)	(2,479)
Designated for Future Years Capital Reserve	3,640	5,793	5,124	4,859	3,790	2,626	1,363	3	(1,470)	(3,062)	(4,780)	(6,633)	(8,629)	(10,777)	(13,085)	(15,564)

Project Number:
502801, 502803

Sponsoring Division:
Watershed Management

Project Manager:
Tim Yung

OVERVIEW

OBJECTIVES

- Provide an increased level of flood protection for Lower Llagas Creek from Pajaro River to Buena Vista Avenue.
- Environmental cleanup of the Church Street property.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 1.2.2 – "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits."
- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."

SCOPE OF WORK

This project provides funds for nonreimbursable activities related to construction of U.S. Natural Resource Conservation Service (NRCS) Lower Llagas Creek Flood Protection Project from Pajaro River to Buena Vista Avenue. Flood protection construction was completed in 1996. The remaining task was the environmental cleanup of the Church Street property. The District purchased the Church Street site as part of the Llagas Creek flood-control channel project in the early 1980's. The District removed two underground storage tanks from the property and completed the flood control project. The extent of contamination was assessed and the District recommended Oxygen Releasing Compounds installation as the best cleanup method. The Regional Water Quality Control Board, as the oversight agency, accepted the District's proposed cleanup method. The first phase of cleanup began in 1999 the district has been monitoring the cleanup and will request closure from the Regional Water Quality Control Board. This effort is accounted for in the following job numbers:

502801 = Costs that are reimbursable from the State Subventions Program.
502803 = Nonreimbursable

OPERATING BUDGET IMPACTS

Operating budget impacts are being developed and will be reported in the near future.

INITIATION AND COMPLETION DATES

April 1982 to December 2006. Major construction was completed in 1996.
This schedule includes post construction activities.

Llagas at Bloomfield Road

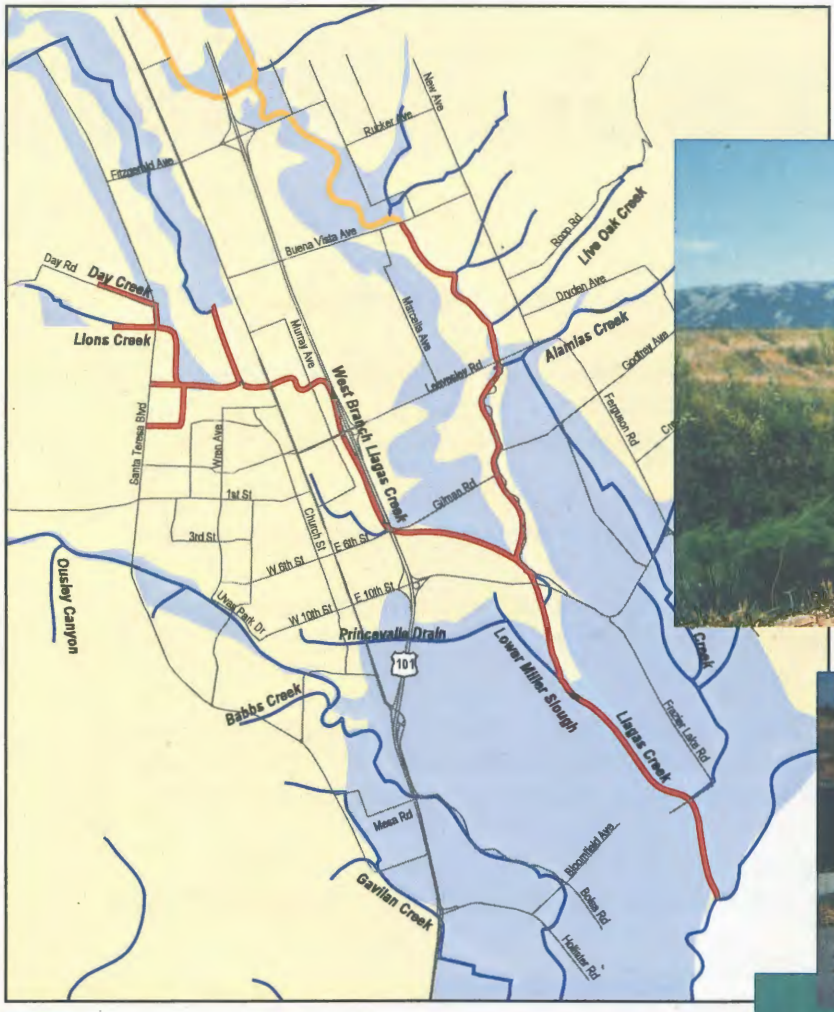
POTENTIAL COST SHARING

Yes

Partnering Agencies: NRCS, the State of California and District

Cost Sharing Formula: NRCS is responsible for the costs of flood protection and mitigation elements of the project. The State of California, through its subventions program, reimburses 100 percent of the District's costs, i.e. costs for right-of-way acquisition, utility relocation and bridge reconstruction. Refer to "Partnerships" section of Uvas/Llagas Watershed Fund on page 77.

Reimbursement Schedule: NRCS has paid its share of the project costs prior to 1999. Outstanding reimbursement from the State of California, $1.66 million, is anticipated in FY 2002, and $30,000 is anticipated in FY 2004.



Project Limits

Upper Llagas Creek

1 Percent Floodplain

Llagas at Bloomfield Bridge, looking upstream.

Lions Creek at Wren Avenue, looking upstream.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
502801	Lower Llagas Creek Reimbursable	2,185	69	11	7	0	0	0	0	0	0	0	0	0	2,272
502803	Lower Llagas Creek Nonreimbursable	628	49	59	42	8	8	8	8	0	0	0	0	0	810
Total		2,813	118	69	50	8	8	8	8	0	0	0	0	0	3,082

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
The amount shown in Cost Chart is District's share of the total project costs and does not include NRC's share.

Project Number:
509001

Sponsoring Division:
Watershed Management

Project Manager:
Tim Yung

OVERVIEW

OBJECTIVES

- Develop a selected site into vegetated buffer strips to actively buffer the adjacent waterway from sediment and chemical laden runoff.
- Select a site, using the following criteria: where the strips can provide the most benefit, availability of land, and cost of land acquisition.
- Pursue external matching funds in accordance with the Board's direction of July 11, 2000.

BENEFITS

- Policy E-1, 2.1.1.2 -"Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified"
- Policy 2.1.1.3- "Mitigation, enhancements, or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

- Investigate and secure external grants consistent with Board directive for executing this project. The following scope of work and the associated schedule and costs will be determined when external grants opportunities are confirmed. The schedule and costs shown are for securing grant opportunity only.
- Create a partnering opportunity with concerned local agencies and property owners.
- Acquire land through fee title, easement or by assisting land owners in participating with federal leasing programs
- Planning, design and install planted buffer strips
- Monitor buffer strips for plant maintenance and for reductions of contaminant levels in overland surface runoff.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the planning phase.

INITIATION AND COMPLETION DATES

July 2001 to March 2005

POTENTIAL COST SHARING

Cost-sharing opportunities with concerned local agencies are being explored but have not been factored into budget estimates.

SCHEDULE

Project Schedule	Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review												
Design & Land Purchase												
Construction & Mitigation												

Typical South County site, for which buffer strips may be helpful.

Target Area

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
509001	Uvas/Llagas Veg Buffer	0	0	9	14	0	0	0	0	0	0	0	0	0	24

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

CLEAN SAFE CREEKS & NATURAL FLOOD PROTECTION

Santa Clara Valley Water District

CLEAN, SAFE CREEKS & NATURAL FLOOD PROTECTION FUND

OVERVIEW

The Clean, Safe Creeks and Natural Flood Protection Fund (Fund) is a special revenue fund. It is a newly established fund, starting in FY 2002, to account for special tax revenue, approved in November 2000 by voters in Santa Clara County. This revenue is restricted to financing the costs of the Clean, Safe Creeks and Natural Flood Protection Program.

The Clean, Safe Creeks and Natural Flood Protection Program reflects the input of residents, community leaders, business owners, organizations and agencies throughout Santa Clara County. It is a countywide program designed to protect valley homes, schools, businesses, and transportation systems from flooding, while at the same time improving water quality, maintaining and restoring riparian corridor for wildlife habitat, and creating trails and parks for recreational enjoyment.

The public supported the program by voting to approve a special parcel tax in November 2000 to fund it. This special parcel tax will cost residents approximately $39 per household per year, raising $24.7 million (1999 dollars) annually for 15 years and then sunsetting to zero. Approximately 70 percent of the 15-year total is designated for the capital improvement program.

CAPITAL IMPROVEMENT PROGRAM

The voter-approved Clean, Safe Creeks and Natural Flood Protection Program included a clearly defined capital improvement program. Commencing in FY 2002, the District will progressively implement the projects identified in the capital improvement program according to the schedules presented to the voters. The Schedule and Costs chart, and the Funding Sources and Flow of Funds chart, shown on the following pages, are the preliminary implementation plans for the capital improvement program. Following is the implementation status:

MAJOR PROJECTS—CURRENT

Guadalupe Watershed

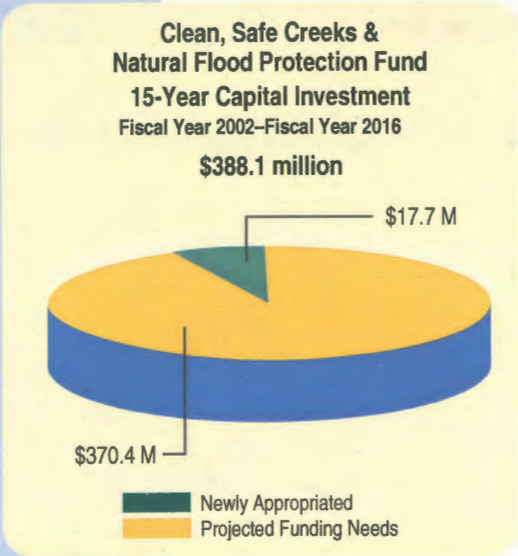
- Upper Guadalupe River from Highway 280 to Blossom Hill Road

Coyote Watershed

- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road
- Coyote Creek from Montague Expressway to Highway 280

Uvas/Llagas Watershed

- Upper Llagas Creek from Buena Vista Avenue to Wright Avenue



MAJOR PROJECT—FUTURE

Lower Peninsula Watershed

- Permanente Creek from San Francisco Bay to El Camino
- San Francisquito Creek from San Francisco Bay to Searsville Dam

West Valley Watershed

- Sunnyvale West Channel from Guadalupe Slough to Highway 101
- Calabazas Creek from Miller Avenue to Wardell Road
- Sunnyvale East Channel from Guadalupe Slough to Highway 280

The estimated fifteen-year capital investments, from FY 2002 to FY 2016, to complete the current and future projects is $388.1 million, with $17.7 million appropriated by the Board of Directors for FY 2002 and 2003, and $370.4 million projected funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
26C178	Permanente Creek, SF Bay-Foothill Exp.	0	0	0	0	0	0	0	0	0	8,300	8,300	8,300	1,500	26,400
26C179	San Francisquito Creek, SF Bay-Searsville Dam	0	0	0	0	0	0	2,000	2,000	2,000	2,000	0	0	0	8,000
26C232	Sunnyvale East Channel	0	0	0	0	0	0	0	0	840	840	840	840	20,740	24,100
26C233	Sunnyvale West Channel	0	0	0	0	0	0	0	630	630	630	630	2,330	250	5,100
26C236	Calabazas Creek Upstream of Miller Avenue	0	0	0	0	840	840	840	1,050	1,050	1,050	14,580	7,425	7,425	35,100
	Upper Guadalupe River	0	0	1,058	1,236	5,500	19,463	18,114	17,636	5,891	8,000	3,913	1,750	31,174	113,735
	Berryessa Creek	0	0	722	2,404	5,868	9,876	9,876	9,876	0	0	0	0	0	38,672
261743	Coyote Creek, Montague-Hwy 280	0	0	863	814	840	840	840	840	840	1,050	1,050	1,050	22,970	31,998
	Upper Llagas Creek	0	0	2,479	8,140	6,361	5,131	798	292	0	0	0	0	0	23,200
	Total	**0**	**0**	**5,173**	**12,594**	**19,409**	**36,150**	**32,468**	**32,324**	**11,451**	**21,870**	**29,313**	**21,695**	**84,459**	**306,305**
	Total (with inflation)	**0**	**0**	**5,173**	**12,594**	**21,209**	**40,687**	**37,639**	**38,597**	**13,910**	**27,704**	**38,247**	**25,830**	**126,548**	**388,138**
	15-Yr Investment		**0**	**17,755**					**370,372**						**388,138**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are four categories of revenue sources available to the Clean, Safe Creeks and Natural Flood Protection Fund for funding capital projects. These sources include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

Based on input from the community, it was decided that the Clean Safe Creeks and Natural Flood Protection plan would be built on a pay-as-you-go structure. The plan does not include debt financing to accelerate the construction of capital projects; rather, projects will be constructed, as money becomes available.

AVAILABLE ANNUAL REVENUE

For the next 15 years, the Clean, Safe Creeks and Natural Flood Protection Fund will have approximately $18 to $30 million each year in available annual revenue for its capital program.

PARTNERSHIPS

A summary of partnership and cost-sharing information is presented on the following two pages.

CAPITAL RESERVE

The Clean Safe Creeks and Natural Flood Protection Fund is a new fund starting in FY 2002, and therefore does not have any capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		5,173	12,593	21,209	40,687	37,639	38,597	13,910	27,704	38,247	25,830	28,068	28,910	22,508	23,183	23,879
Funding Sources																
Debt Financing		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Available Revenue		17,603	21,035	18,242	21,341	22,042	22,577	22,324	23,152	23,866	24,063	24,602	25,255	25,977	26,974	28,097
Partnerships (See Appendix for details)		0	0	7,750	8,250	13,750	8,750	3,250	5,750	0	0	4,600	4,600	4,600	4,600	4,600
Total Funding Sources		17,603	21,035	25,992	29,591	35,792	31,327	25,574	28,932	23,866	24,063	29,202	29,855	30,577	31,574	32,697
Balance Increase (decrease) to Capital Reserve		12,430	8,441	4,783	(11,096)	(1,847)	(7,269)	11,665	1,198	(14,381)	(1,767)	1,134	945	8,069	8,391	8,819
Capital Reserve		0	12,430	20,871	26,655	14,559	12,712	5,442	17,107	18,305	3,924	2,156	3,290	4,235	12,304	20,695
Increase (decrease) to Capital Reserve		12,430	8,441	4,783	(11,096)	(1,847)	(7,269)	11,665	1,198	(14,381)	(1,767)	1,134	945	8,069	8,391	8,819
Designated for Future Years Capital Reserve	0	12,430	20,871	25,665	14,559	12,712	5,442	17,107	18,305	3,924	2,156	3,290	4,235	12,304	20,695	29,514

PARTNERSHIPS

The Clean Safe Creeks and Natural Flood Protection plan made conservative assumptions that included state and federal funding sources for its capital improvement program. The following three projects, Upper Guadalupe River Project, Berryessa Creek Project and Upper Llagas Creek Project, already authorized by Congress or state legislature, are planned to be cooperatively funded by the Corps of Engineers, the State of California, and the District.

PARTNERSHIPS

Upper Guadalupe River from Highway 280 to Blossom Hill Road

Upper Guadalupe River from Highway 280 to Blossom Hill Road is planned to be a cooperative project between the Corps of Engineers (COE) and the District. For financial planning purposes, the following cost-sharing formula is assumed.

COE—Responsible for the cost of flood management and mitigation elements. The Corps' portion is currently estimated to be $42.9 million.

District (Clean, Safe Creeks and Natural Flood Protection Fund)—Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup. The District's portion is currently estimated to be $70.8 million.

PARTNERSHIPS

Berryessa Creek from Calaveras Boulevard to Old Piedmont Road

Berryessa Creek from Calaveras Boulevard to Old Piedmont Road is planned to be a cooperative project between the Corps of Engineers (COE), and the District. For financial planning purposes, the following cost-sharing formula is assumed.

COE—1. Responsible for 50 percent of $1.9 million Re–evaluation Study cost.
2. Responsible for at least 50 percent of the design and construction costs of flood management and mitigation elements. The Corps' portion is currently estimated to be $19.3 million.

District (Clean Safe Creeks and Natural Flood Protection Fund)—
1. Responsible for 50 percent of $1.9 million Re-evaluation Study cost.
2. Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup, not to exceed 50 percent of the total project cost. The total District portion is currently estimated to be $19.3 million.

State—Up to 70 percent of local costs are eligible for reimbursement under the California State Subventions Program. Although this project has been authorized by the State Legislature, due to the uncertainty of this potential funding, no State Subventions have been assumed at this time. However, staff will continue to aggressively pursue state funding.

Upper Llagas Creek from Buena Vista Avenue to Wright Avenue is planned to be a cooperative project between the Corps of Engineers (COE), Natural Resources Conservation Services (NRCS), the State, and the District. The Memorandum of Agreement between the COE, the NRCS and the District will define the cost-sharing responsibilities. For financial planning purpose, the following cost-sharing formula is assumed.

COE—Responsible for the cost of planning, construction, and mitigation elements, but no less than 50 percent of the total Project costs, currently estimated to be $21.8 million.

District (Clean Safe Creeks and Natural Flood Protection Fund)—Responsible for the costs of right-of-way acquisition, utility relocation, bridge reconstruction, and hazardous material cleanup, but no more than 50 percent of the total Project costs. The District's portion is currently estimated to be $23.2 million.

State—It is estimated that the State will reimburse the District approximately $10.5 million through its Subventions Program.

NRCS—No cost sharing responsibilities since the project has been transferred to COE for construction. NRCS is responsible for providing information regarding project planning and design.

Project Number:
26C178

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection, reduce erosion and sedimentation, and reduce maintenance costs and improve safety and stability of failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

- Finish design and prepare plans and specifications.
- Construction.

The planning and initial phase of design for this project will be accomplished in Job #102401.

OPERATING BUDGET IMPACTS

Impacts on operating budget will be identified during the planning study conducted under Job #102401.

INITIATION AND COMPLETION DATES

July 2008 to June 2016. (Finalize design documents and construct.)

POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

Project Limits

1 Percent Floodplain

Flooding and debris along Permanente.

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
26C178	Permanente Creek, SF Bay to Foothill Expressway	0	0	0	0	0	0	0	0	0	8,300	8,300	8,300	1,500	26,400

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

San Francisquito Creek

San Francisco Bay to Searsville Dam

Project Number: 26C179

Sponsoring Division: Watershed Management

Project Manager: Liang Lee

OVERVIEW

OBJECTIVES

- Provide for flood protection, and erosion/sedimentation control, on San Francisquito Creek from San Francisco Bay to Searsville Dam.
- Provide for environmental restoration and enhancement benefits, where opportunities exist.
- Provide for recreation enhancements, where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project will provide funding for the District to:

- Complete the planning study, including environmental review.
- Complete design and prepare plans and specifications for the approved project.

OPERATING BUDGET IMPACTS

Operating budget impacts will be developed during the planning study and will be reported later.

INITIATION AND COMPLETION DATES

July 2006 to June 2010. (Finalize planning documents and complete design.)

POTENTIAL COST SHARING

Yes

Partnering Agencies: San Francisquito Creek Joint Power Authority (JPA), and Corps of Engineers (COE). The JPA is pursuing COE's participation in the feasibility study. The project is potentially a federal–local cooperative project. For planning purposes, no cost sharing is assumed for this project. This assumption is consistent with the Flood Protection and Stream Stewardship Program Plan.

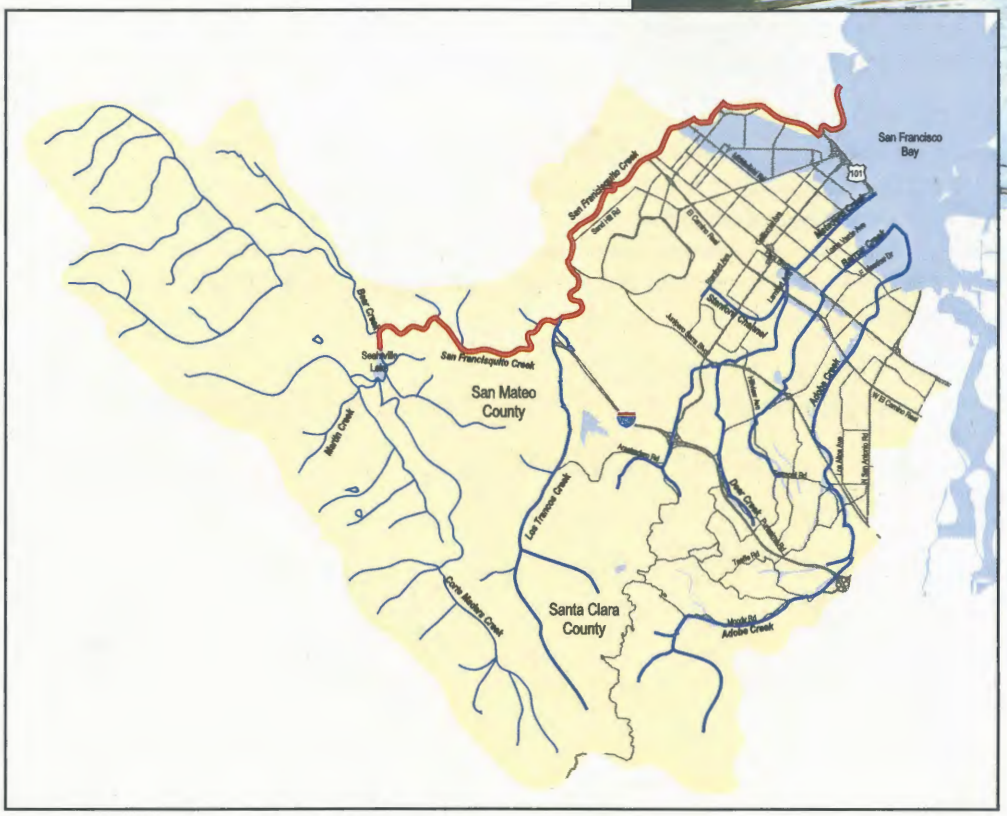
Cost Sharing Formula: Undetermined.

Reimbursement Schedule: Undetermined.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

San Francisquito Creek flooded over 300 homes in 1998, causing over $28 million in damages.



Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
26C179	San Francisquito Creek, SF Bay to Searsville Dam	0	0	0	0	0	0	2,000	2,000	2,000	2,000	0	0	0	8,000

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Sunnyvale East Channel

Guadalupe Slough to Highway 280

Project Number: 26C232

Sponsoring Division: Watershed Management

Project Manager: Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection on Sunnyvale East Channel.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK:

This project, Sunnyvale East Channel from Guadalupe Slough to Interstate 280, develops a plan that reduces the potential for flood damage, reduces erosion and sedimentation, improves water quality, reduces maintenance costs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood control construction documents will be designed, based on the approved preferred alternative. Construction of the approved design is included.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

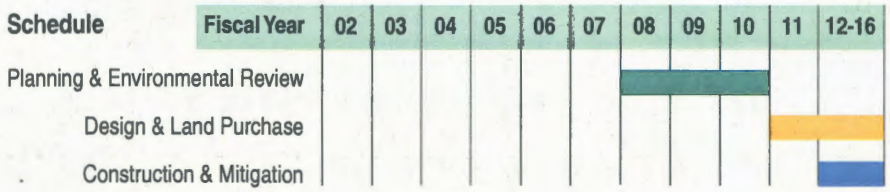
INITIATION AND COMPLETION DATES

July 2007 to June 2016

POTENTIAL COST SHARING

None

SCHEDULE



Erosion occured along the Sunnyvale East Channel.

Project Limits

1 Percent Floodplain

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
26C232	Sunnyvale East Channel	0	0	0	0	0	0	0	0	840	840	840	840	20,740	24,100

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Sunnyvale West Channel

Guadalupe Slough to Highway 101

Project Number: 26C233

Sponsoring Division: Watershed Management

Project Manager: Liang Lee

OBJECTIVES

- Provide flood protection on Sunnyvale West Channel.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project, Sunnyvale West Channel from Guadalupe Slough to Hwy 101, develops a plan that mitigates the potential for flood damage, reduces erosion and sedimentation, reduces maintenance costs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood control construction documents will be designed, based on the approved preferred alternative. Construction of the approved design is included.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

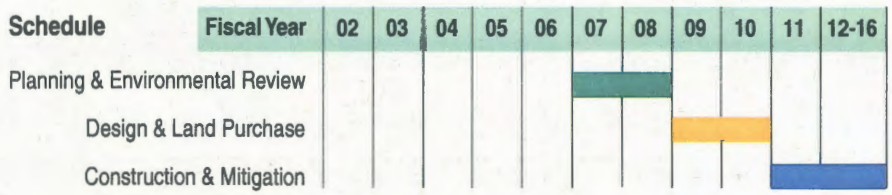
INITIATION AND COMPLETION DATES

July 2006 to June 2012

POTENTIAL COST SHARING

None

SCHEDULE



Project Limits

1 Percent Floodplain

Sunnyvale West flooding upstream of Caribbean Drive in 1983.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
26C233	Sunnyvale West Channel	0	0	0	0	0	0	0	630	630	630	630	2,330	250	5,100

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
26C236

Sponsoring Division:
Watershed Management

Project Manager:
Liang Lee

OVERVIEW

OBJECTIVES

- Provide flood protection on Calabazas Creek from Miller Avenue to Wardell Road.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

This project—Calabazas Creek from Miller Avenue to Wardell Road—develops a plan that mitigates the potential for flood damage, reduces erosion and sedimentation, reduces maintenance costs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood control construction documents will be designed, based on the approved preferred alternative. Construction of the approved design is included.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

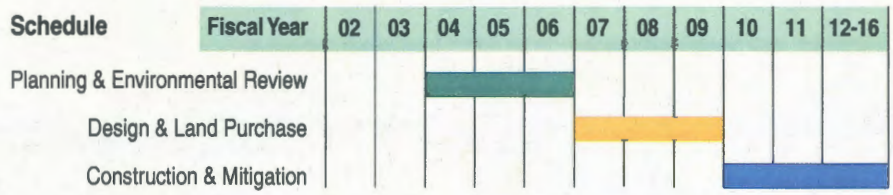
INITIATION AND COMPLETION DATES

July 2003 to June 2013

POTENTIAL COST SHARING

None

SCHEDULE



Calabazas Creek overtops its banks, flooding neighborhood streets.

Project Limits

1 Percent Floodplain

COST

(in thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Projected Funding Needs									Est. Total Cost
		91-01	01	02	03	04	05	06	07	08	09	10	11	12-16	
26C236	Calabazas Creek Upstream of Miller	0	0	0	0	840	840	840	1,050	1,050	1,050	14,580	7,425	7,425	35,100

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Guadalupe River Upper

Highway 280
to Blossom Hill Road

Project Number:
261731 261732 261733
26C340 26C341 26C342
26C343 26C344 26C345
26C346 26C347 26C348
26C349 26C350 26C351
26C352

Sponsoring Division:
Watershed Management

Project Manager:
Ngoc Nguyen

OVERVIEW

OBJECTIVES

- Provide flood protection on the upper reaches of Guadalupe River, from Interstate 280 to Blossom Hill.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project implements the recommended alternative anticipated to be approved by the Board of Directors in August 2001, including design, preparation of plans and specifications, and construction.

This effort will be accounted for in the following job numbers.

261731=Guadalupe River Upper, Corps Coordination
261732=Guadalupe River Upper, Right of Way
261733=Guadalupe River Upper, Planning
26C340=Guadalupe River Upper, Reach 6
26C341=Guadalupe River Upper, Reach 7A
26C342=Guadalupe River Upper, Reach 7B
26C343=Guadalupe River Upper, Reach 8
26C344=Guadalupe River Upper, Reach 9
26C345=Guadalupe River Upper, Reach 10A
26C346=Guadalupe River Upper, Reach 10B
26C347=Guadalupe River Upper, Reach 10CD
26C348=Guadalupe River Upper, Reach 11
26C349=Guadalupe River Upper, Reach 12
26C350=Guadalupe River Upper at Canoas
26C351=Guadalupe River Upper at Ross Creek
26C352=Guadalupe River Upper Fish Barrier

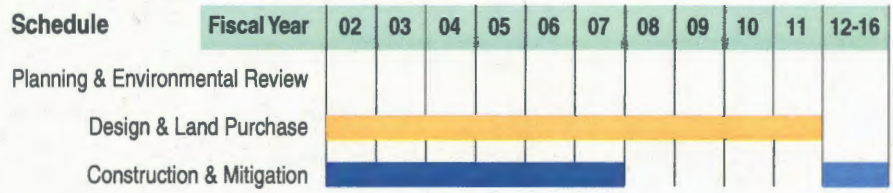
OPERATING BUDGET IMPACTS

Operating budget impacts are expected to be determined during the planning phase in job #301504 and 301505.

INITIATION AND COMPLETION DATES

July 2001 to June 2016

SCHEDULE



COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
261731	Guadalupe River Upper, U/S Hwy 280 (Corps)	0	0	252	290	0	0	0	0	0	0	0	0	0	541
261732	Guadalupe River Upper, ROW, 280-Blossom Hill	0	0	615	947	0	0	0	0	0	0	0	0	0	1,561
261733	Guadalupe River Upper Planning	0	0	191	0	0	0	0	0	0	0	0	0	0	191
26C340	Guadalupe River Upper, Reach 6	0	0	0	0	2,000	5,000	5,000	6,500	200	0	0	0	0	18,700
26C341	Guadalupe River Upper, Reach 7A	0	0	0	0	3,000	3,000	2,714	6,008	2,041	0	0	0	0	16,763
26C342	Guadalupe River Upper, Reach 7B	0	0	0	0	0	1,282	0	2,778	0	0	0	0	0	4,060
26C343	Guadalupe River Upper, Reach 8	0	0	0	0	0	1,000	1,000	2,000	1,300	5,000	0	0	0	10,300
26C344	Guadalupe River Upper, Reach 9	0	0	0	0	0	0	0	0	1,000	1,000	1,900	0	9,900	13,800
26C345	Guadalupe River Upper, Reach 10A	0	0	0	0	0	0	0	0	0	0	13	0	3,449	3,462
26C346	Guadalupe River Upper, Reach 10B	0	0	0	0	0	1,181	0	0	0	0	0	0	0	1,181
26C347	Guadalupe River Upper, Reach 10CD	0	0	0	0	0	0	0	0	1,000	1,000	1,000	750	4,725	8,475
26C348	Guadalupe River Upper, Reach 11	0	0	0	0	0	0	0	0	0	1,000	1,000	1,000	7,600	10,600
26C349	Guadalupe River Upper, Reach 12	0	0	0	0	0	8,000	9,400	350	350	0	0	0	0	18,100
26C350	Guadalupe River Upper at Canoas	0	0	0	0	0	0	0	0	0	0	0	0	1,800	1,800
26C351	Guadalupe River Upper at Ross Creek	0	0	0	0	0	0	0	0	0	0	0	0	3,700	3,700
26C352	Guadalupe River Upper Fish Barriers	0	0	0	0	500	0	0	0	0	0	0	0	0	500
Total		0	0	1,058	1,236	5,500	19,463	18,114	17,636	5,891	8,000	3,913	1,750	31,174	113,735

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
The amount shown in the Cost Chart is the estimated total project costs including both the District's and the COE's share.

POTENTIAL COST SHARING

Yes

Partnering Agencies: Army Corps of Engineers and the District

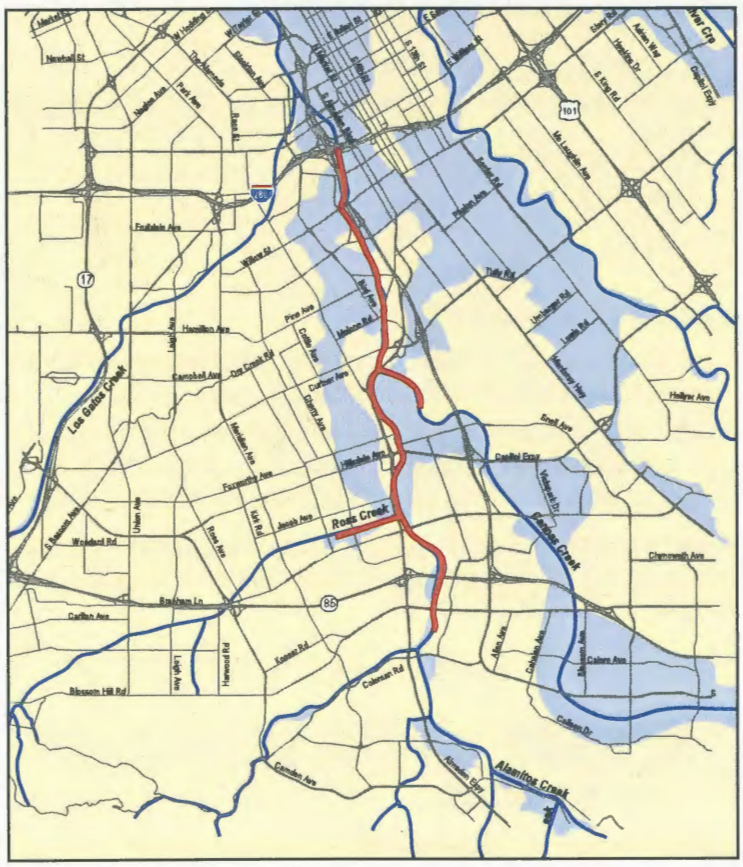
Cost Sharing Formula: It is estimated that the Corps will pay $42.9 million of the estimated total project cost ($113.7 million) and the District will pay approximately $70.8 million.

Reimbursement Schedule: Undetermined. For financial planning purposes, it is assumed that the District will advance the Corp's share of the project and receive reimbursement starting in FY 2005.

Willow Street underpass at SPRR flooding.

San Jose Mercury News

Highway 87 and the parellel light-rail line — both major commuter thoroughfares — were closed by floods in 1995 and 1998.



Project Number:
261741, 261742

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide protection to the surrounding area from the 100-yr flood event.
- Mitigate for project impacts.
- Improve stream habitat values, and fisheries potential.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-2, Article 2.1 – "Watersheds, streams, and the natural resources therein are protected and when appropriate enhanced or restored."
- Policy E-2, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

The Army Corps of Engineers (Corps) will develop a General Reevaluation Report, Environmental Impact Report/Environmental Impact Statement, and design and prepare plans and specifications for Berryessa Creek upstream of Calaveras Boulevard. District will coordinate with the Corps and be responsible for lands, easements, rights of way, relocations, and disposal sites (LERRDs).

This effort is accounted for in the following job numbers.

261741 = Berryessa Creek, Calaveras to Old Piedmont Road

261742 = Berryessa Creek, Calaveras to Old Piedmont Road LERRDs

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined prior to design and preparation of plans and specifications.

INITIATION AND COMPLETION DATES

December 1980 to October 2007.

POTENTIAL COST SHARING

Yes

Partnering Agencies: Corps and the District

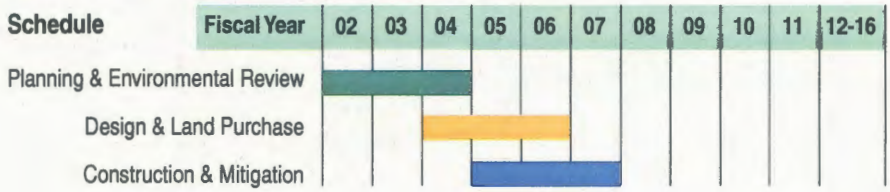
Cost Sharing Formula: The Corps and the District is each responsible for approximately 50 percent of the total project cost including the costs of General Re-evaluation Report.

Reimbursement Schedule: For financial planning purposes, it is assumed that the District will front the Corps' share and receive reibursement later. A total of approximately $19 million in Corps reimbursements are scheduled to be received over 3 years, beginning in fiscal year 2004.

Up to 70 percent of local costs are eligible for reimbursement under the California State Subventions program. Although this project has been authorized by the State Legislature, no State Subventions have been assumed at this time.

Berryessa Creek near flood stage at Piedmont Road in San Jose.

SCHEDULE



Berryessa Creek flooding at Old Piedmont Road in 1983.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
261741	Berryessa Creek Calaveras-Old Piedmont	0	0	633	58	4,045	9,876	9,876	9,876	0	0	0	0	0	34,364
261742	Berryessa Creek Calaveras-Old Piedmont	0	0	139	2,345	1,823	0	0	0	0	0	0	0	0	4,308
Total		0	0	772	2,404	5,868	9,876	9,876	9,876	0	0	0	0	0	38,672

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
The amount shown in the Cost Chart is the estimated total project costs, including both the DIstrict's and the COE's shares.

Project Number:
261743

Sponsoring Division:
Watershed Management

Project Manager:
George Fowler

OVERVIEW

OBJECTIVES

- Provide flood protection on Coyote Creek, from Montague Expressway to Highway I-280.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

BENEFITS

- Policy E-1, Article 1.2.2.1 – "Homes, schools, business and transportation networks are protected from flooding and erosion."
- Policy E-1, Article 2.1.1.3 – "Mitigation enhancements or restorations are implemented when determined appropriate by the Board."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project develops a comprehensive plan that reduces the potential for flood damages, reduces erosion and sedimentation, addresses maintenance needs, and protects fish and wildlife habitat and the creek's environmental resources as a whole. Flood protection construction documents will be designed, based on the Board-approved preferred alternative. Additional funding will be required in order to complete the construction phase of this project.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

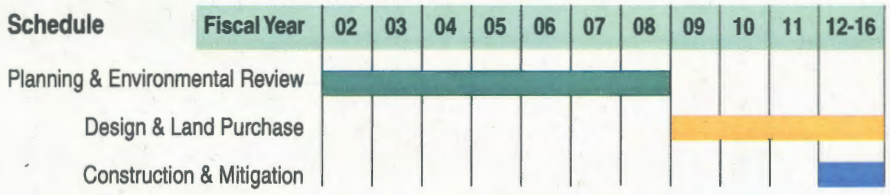
INITIATION AND COMPLETION DATES

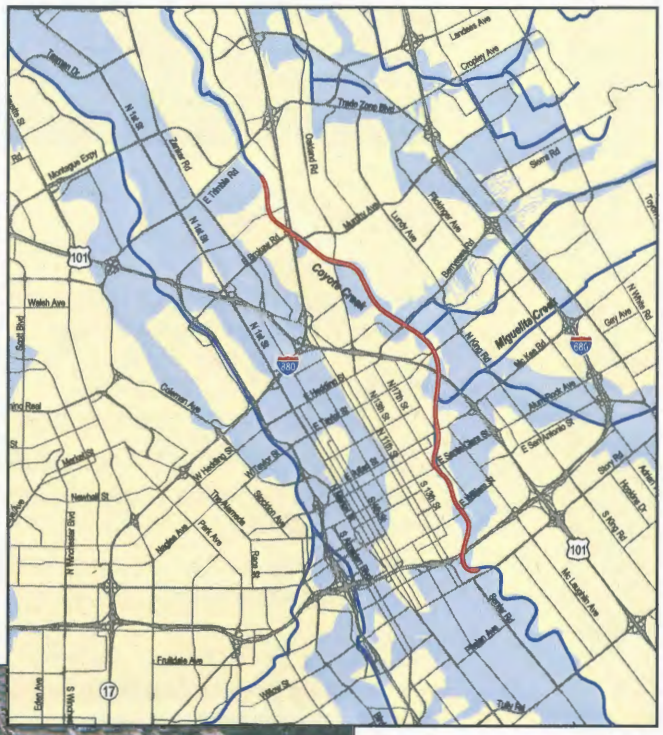
July 2001 to June 2016

POTENTIAL COST SHARING

None identified at this time.

SCHEDULE





Project Limits

1 Percent Floodplain

Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997.

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
261743	Coyote Creek Montague-Hwy 280	0	0	863	814	840	840	840	840	840	1,050	1,050	1,050	22,970	31,998

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
261751, 251752

Sponsoring Division:
Watershed Management

Project Manager:
Tim Yung

OVERVIEW

OBJECTIVES

- Provide an increased level of flood protection with adequate freeboard between Buena Vista Road and Wright Avenue, consistent with the 1982 Engineer's Report.

BENEFITS

- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages.
- Policy E-1, Article 1.2.2 – "There is a balance between the contributions of watersheds and streams in providing for public health and safety and in providing protection of natural resource benefits.
- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion.

SCOPE OF WORK

This project will provide for the design and construction of approximately 16.6 miles of channel, including 9 bridges and box culverts and the relocation of any utilities or other facilities, (farm crossing bridges, building, fencing, barns, etc.) required to complete the project. The environmental document (EIR/EIS), hydraulics, and hydrology will be updated to the current District standards. The plan for reach 8 through downtown Morgan Hill will be revised with input from the community to provide a more aesthetically pleasing and environmentally friendly project. The Corps, as the lead federal agency will be responsible for planning, design and construction of the channel. The District, as the local sponsor will be responsible for land rights acquisition, utility relocations, and design and construction of bridges and box culverts.

This effort is accounted for in the following job numbers:
261751 = Upper Llagas Creek, Reimbursable
261752 = Upper Llagas Creek, Nonreimbursable

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

August 2000 to August 2007.

POTENTIAL COST SHARING

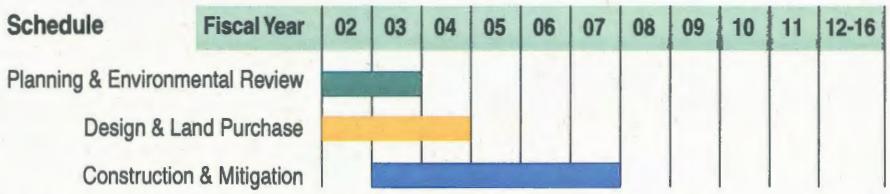
Yes

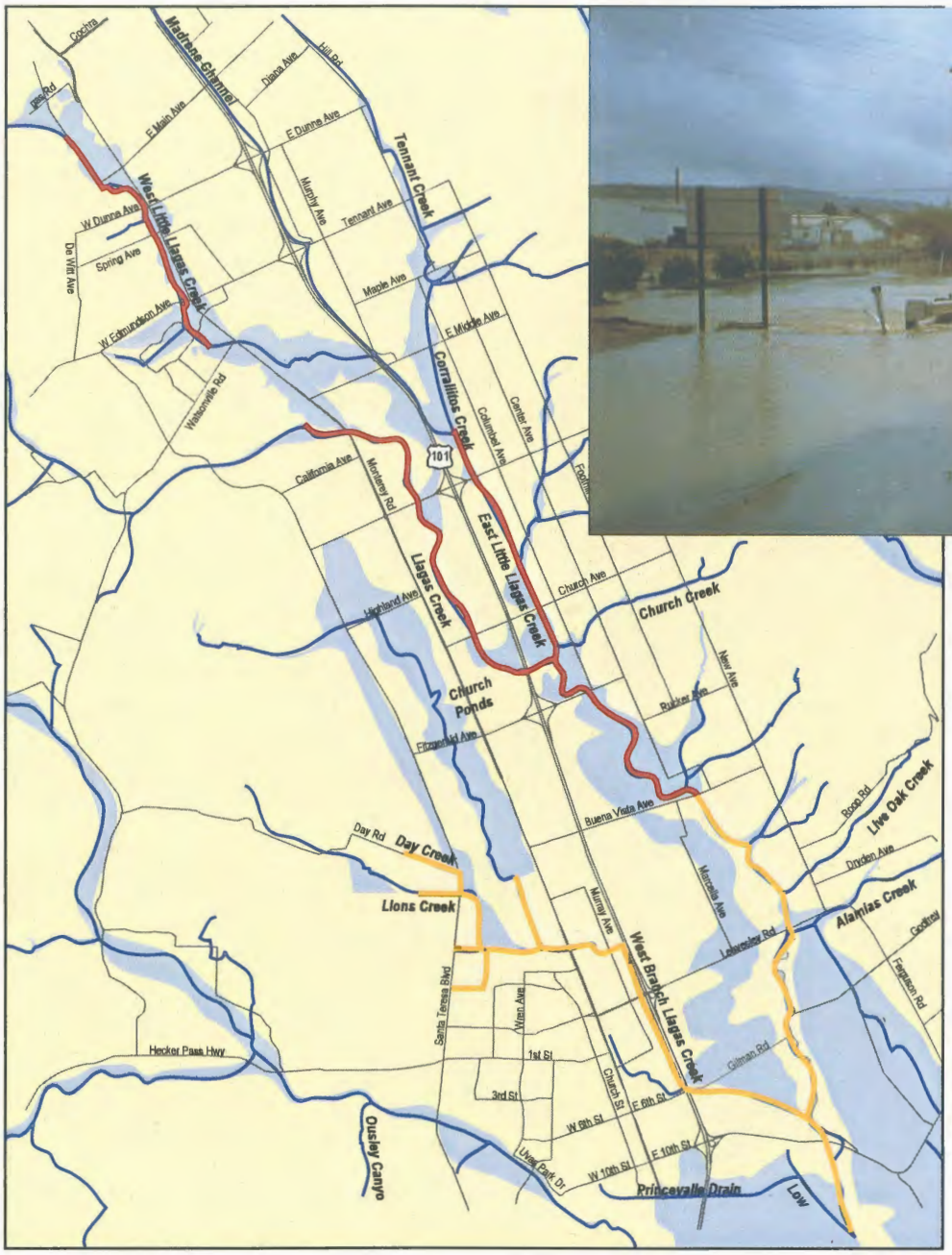
Partnering Agencies: Natural Resource Conservation Service (NRCS), Army Corps of Engineers (Corps), State of California, and the District

Cost Sharing Formula: The Corps is responsible for the costs of planning, construction and mitigation elements of the project. It is estimated the State of California will reimburse the District $10.5 million through its Subventions Program.

Reimbursement Schedule: Approximately $10.5 million in State reimbursements are scheduled over 6 years beginning in Fiscal Year 2004.

SCHEDULE





Llagas Creek floods at Watsonville Road and the surrounding area.

COST

in thousands $

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
261751	Upper Llagas Creek Reimbursable	0	0	2,072	7,723	6,193	4,993	660	292	0	0	0	0	0	21,933
261752	Upper Llagas Creek Nonreimbursable	0	0	408	416	168	138	138	0	0	0	0	0	0	1,267
Total		0	0	2,479	8,140	6,361	5,131	798	292	0	0	0	0	0	23,200

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
Dollars shown in Cost Chart is only the estimated District's share of the project and do not include the Corp's portion.

WATERSHED & STREAM STEWARDSHIP

Santa Clara Valley Water District

WATERSHED & STREAM STEWARDSHIP FUND

OVERVIEW

The Watershed and Stream Stewardship Fund (Fund) is a sub-fund under the District's General Fund. It was established in FY 2001 to account for a portion of the District's 1 percent ad valorem property tax revenue intended to finance the costs of countywide stream stewardship activities.

In past years, the Board of Directors had allocated this portion of the 1 percent ad valorem property tax to the Water Utility Enterprise. These funds paid for watershed-related water utility activities: creek maintenance, land development review, urban runoff program, and preservation of fisheries and natural habitat.

The above mentioned activities are also covered by the District's 15-year Flood Protection & Stream Stewardship Program (Program), the Board decided to combine the above mentioned activities with the Program. This action produces the double benefit of providing a more complete program and consolidating efforts for more efficient operation. The Watershed Stream Stewardship Fund was thus created and serves both water utility and flood management goals within a watershed context.

CAPITAL IMPROVEMENT PROGRAM

The Watershed and Stream Stewardship Fund was recently established in FY 2001 and therefore it does not have completely defined programs nor a capital improvement program. The District will need to dedicate resources, working with the advisory committees and communities, to identify operation programs and projects to be included in the capital improvement program. Following is a summary of currently identified projects.

MAJOR PROJECTS—COMPLETED

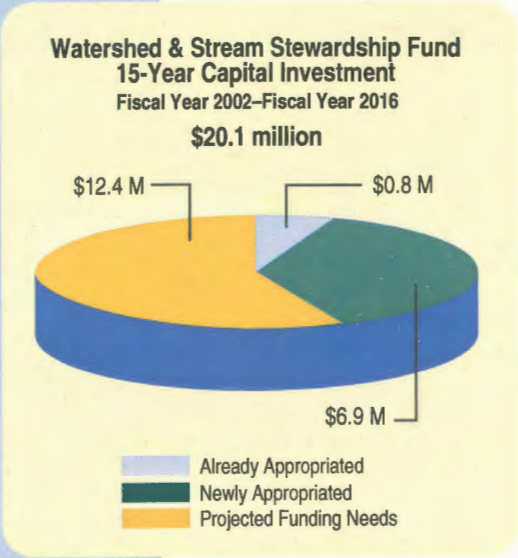
- None

MAJOR PROJECTS—CURRENT

- Pond A4 Tidal Wetlands Mitigation
- Alamitos Fish Ladder Site Modification
- Church Avenue Percolation Pond Wetland Creation

MAJOR PROJECTS—FUTURE

No future projects are identified



The estimated fifteen-year capital investment, from FY 2001 to FY 2016, to complete the current and future projects, is approximately $20.1 million; with $.8 million already appropriated by the Board of Directors in previous years, $6.9million appropriated for FY 2002 and 2003, and $12.4 million requested future funding.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
620418	Pond 4A Tidal Wetlands Mitigation Site Reimbursable	163	777	2,954	3,018	705	623	623	600	600	600	600	600	3,000	14,863
621001	Alamitos Fish Ladder Recreational Access	0	0	222	455	0	0	0	0	0	0	0	0	0	677
627501	Church Avenue Wetland Creation	0	0	127	129	1,200	200	200	200	0	0	0	0	0	2,057
	Total	**163**	**777**	**3,304**	**3,602**	**1,905**	**823**	**823**	**800**	**600**	**600**	**600**	**600**	**3,000**	**17,597**
	Total (with inflation)	**163**	**777**	**3,304**	**3,602**	**2,082**	**926**	**954**	**955**	**738**	**760**	**783**	**806**	**4,410**	**20,260**
	15-Yr Investment		**777**	**6,906**					**12,414**						**20,098**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

There are four categories of revenue available to the Watershed and Stream Stewardship Fund for funding capital projects. These categories of revenue include debt financing, available annual revenue, partnerships and capital reserve.

DEBT FINANCING

Debt financing is not planned for this Fund.

AVAILABLE ANNUAL REVENUE

For the next fifteen years, the Watershed and Stream Stewardship Fund will have approximately $3 million each year in available annual revenue for its capital program. The Available Annual Revenue is estimated based on the currently identified operational expenses. As stated on page 109, operation programs and the associated expenses for this fund will need to be developed, which will then determine the size of the capital improvement program.

PARTNERSHIPS

Opportunities to partner with other agencies or organizations to cooperatively fund the capital improvement projects have not yet been identified.

CAPITAL RESERVE

The Watershed and Stream Stewardship Fund will have accumulated approximately $1 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		3,304	3,602	2,082	926	954	955	738	760	783	806	831	855	881	908	935
Funding Sources																
Debt Financing		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual Available Revenue		3,005	4,812	6,246	6,293	6,695	7,156	7,657	8,198	8,775	9,389	10,040	10,729	11,458	12,231	13,048
Partnerships (See Schedule and Cost chart for details)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources		3,005	4,812	6,246	6,293	6,695	7,156	7,657	8,198	8,775	9,389	10,040	10,729	11,458	12,231	13,048
Balance Increase (decrease) to Capital Reserve		(298)	1,210	4,164	5,367	5,741	6,200	6,919	7,438	7,992	8,583	9,209	9,873	10,577	11,323	12,113
Capital Reserve		1,310	1,011	2,221	6,386	11,752	17,493	23,693	30,612	38,050	46,043	54,625	63,834	73,708	84,285	95,608
Increase (decrease) to Capital Reserve		(298)	1,210	4,164	5,367	5,741	6,908	7,666	8,235	8,851	9,508	10,205	10,944	11,727	12,557	13,437
Designated for Future Years Capital Reserve	1,310	1,011	2,221	6,386	11,752	17,493	23,693	32,612	38,050	46,043	54,625	63,834	73,708	84,285	95,608	107,721

Project Number:
620418

Sponsoring Division:
Watershed Management

Project Manager:
Belinda Allen

OVERVIEW

OBJECTIVES

- Develop a "Pond A4 Tidal Wetlands Planning Study Report" containing recommendations for restoring 310-acres of the 321-acre site to a self-sustaining, fully functioning tidal wetland ecosystem.
- Obtain environmental regulatory clearances for implementing the planning study report and establish a tidal wetlands mitigation bank at Pond A4 to provide mitigation credit for future projects through a mitigation banking agreement subject to approval by the Board of Directors.
- Restore 30 or more acres of tidal wetlands to comply with existing and anticipated permits and environmental clearances.
- Identify tidal wetlands restoration or enhancement opportunities for District Board consideration.
- Integrate and coordinate with regional bay lands planning activities, particularly the proposed large-scale restoration of the south bay salt ponds.

BENEFITS

- Policy E-1, Article 2.1.1 – "Healthy creek and bay ecosystems are protected, enhanced, or restored as determined appropriate by the Board."
- Policy E-1, Article 2.1.1.3 – "Mitigation, enhancements or restorations are implemented when determined appropriate by the Board.
- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy E-1, Article 1.2.1 – "The cost of reducing the potential for flood damages is balanced with benefits (including possible environmental restoration and enhancement)."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate.
- Policy EL-1.1, Article 5 – "The CEO/GM shall not "Fail to establish with consumers a clear understanding of what may be expected and what may not be expected from the service offered."

SCOPE OF WORK

The project consists of three major stages:

- The selection and acquisition of the restoration site, which has been completed.
- The planning and design for 30 acres of the site and possibly the entire site.
- Initial restoration of 30 or more acres of tidal wetlands.

The project will be partially completed upon approval of Pond A4 Tidal Wetlands Mitigation Program and construction of 30 or more acres of tidal wetlands habitat. Scope, schedule and costs for implementing the overall program is not currently defined.

OPERATING BUDGET IMPACTS

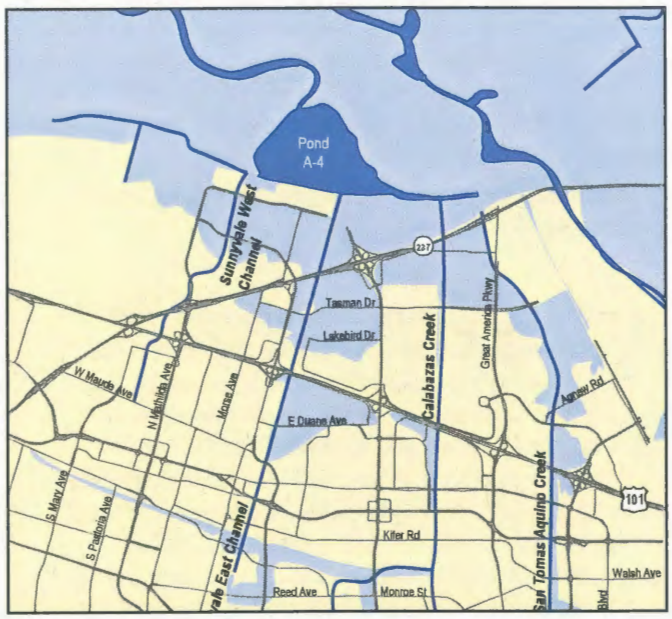
Operating budget impacts are anticipated and will be determined during the planning.

INITIATION AND COMPLETION DATES

Initiated August 2000. Completion date for the planning study is FY 2005.
Construction will begin in FY 2008 and could continue for 2 decades.

POTENTIAL COST SHARING

None



1 Percent Floodplain

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
620418	Pond 4A Tidal Wetlands Mitigation Site	163	777	2,954	3,018	705	623	623	600	600	600	600	600	3,000	14,863

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
621001

Sponsoring Division:
Watershed Management

Project Manager:
Belinda Allen

OVERVIEW

OBJECTIVES

- Provides for safe public use of the Alamitos Fish Ladder site, which is informative, educational, and aesthetically pleasing.

BENEFITS

- Policy E-1, Article 2.1.1.2 – "Opportunities to enhance or restore natural resource benefits of streams and watersheds are identified."
- Policy E-1, Article 2.2 – "There are additional open spaces, trails, and parks along creeks and in the watersheds when reasonable and appropriate."

SCOPE OF WORK

This project will develop a plan and facilities to allow for public visitation of the fish ladder site extending to the areas immediately upstream and downstream of the site. The plan will provide for an education element which is available to independent visitors and groups. The aesthetics of the site and structures will be addressed. The site and adjacent areas will be landscaped. The site plan anticipates the need for power and communication lines and irrigation for any landscaping. Any needed improvements in the present operational capability will be addressed. The use of new technology demonstrations will be investigated. Interested parties, which will be contacted during the development of the plan, include the Public Information Office, maintenance, operations, environmental resources management, and the City of San Jose Parks Department. Implementation of the plan will be determined following approval of the plan.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

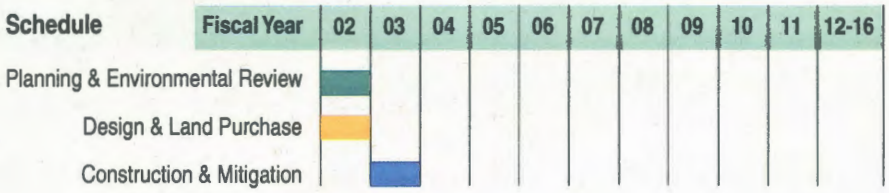
INITIATION AND COMPLETION DATES

July 2001 to June 2003.

POTENTIAL COST SHARING

None

SCHEDULE



Current Fish Ladder and landscape conditions.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
621001	Alamitos FIsh Ladder Recreational Access	0	0	222	455	0	0	0	0	0	0	0	0	0	677

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
627501

Sponsoring Division:
Watershed Management

Project Manager:
Belinda Allen

OVERVIEW

OBJECTIVES

- Create a 1.1-acre wetland to satisfy the mitigation requirement for the 1997 Jones and Morey Channel sediment removal projects

BENEFITS

- Policy E-1, Article 2.1.1.3 – "Mitigation, enhancements, or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

Complete a feasibility study, engineer's report and CEQA document for creation of a minimum 1.1-acre wetland in the Church Avenue percolation pond. Investigate the feasibility of creating more wetlands at the site, investigate the need and type of streamflow diversion, and any impacts on water operations. Prepare construction drawings and specifications. Award construction contract and manage construction.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined during the planning phase.

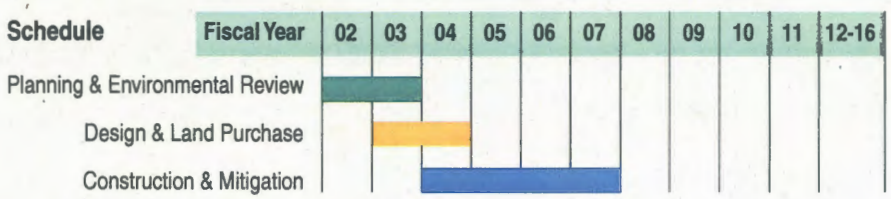
INITIATION AND COMPLETION DATES

July 2001 to June 2007

POTENTIAL COST SHARING

None

SCHEDULE



Church Pond No.2. View looking south. Llagas Creek follows the line of trees on the left. Without a diversion structure in place, the pond is dry. The wetland bench will be installed on the left (east) bank of the pond, towards the pond center. Photo date:9/21/00

★ Project Location

1 Percent Floodplain

Llagas Creek downstream of Church Avenue. Pond 2 is located to the outside of the right levee. Photo date: 9/21/00.

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
627501	Church Avenue Percolation Pond Wetland Creation	0	0	127	129	1,200	200	200	200	0	0	0	0	0	2,057

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

DISTRICT GENERAL FUND

Santa Clara Valley
Water District

PROGRAM OVERVIEW

The General Fund is the District's primary operating fund. It accounts for all revenues and expenditures not accounted for in other funds. The General Fund receives approximately 6 percent of the District's property tax revenue, an average of $3 million a year, as its operating revenue. The General Fund's expenditures are for programs and projects that facilitate internal management and organizational processes and provide support services to the District's core businesses.

The General Fund's expenditures in excess of available revenues and designated reserves are charged back to all other District funds as an overhead cost. This overhead cost is applied to all operations, operating projects, and capital projects of other funds as a percentage of the District labor performed for each fund.

CAPITAL IMPROVEMENT PROGRAM

In past years, the General Fund's capital improvement program was focused on providing a safe and productive work environment for District employees. This focus will continue and expand to address the anticipated growth of the District for the next 15 years. Staff will start evaluation of the District's building and office facilities and develop an Asset Management Plan. The plan will serve as the blue print for identifying new capital projects and projecting future funding needs. Additionally, a new initiative will start in FY 2002 that will require significant capital investment—implementation of the Information Systems Master Plan. This initiative will provide the District easy and timely access to data and management information, which will help critical decision-making and facilitates communication.

MAJOR CAPITAL PROJECTS—COMPLETED

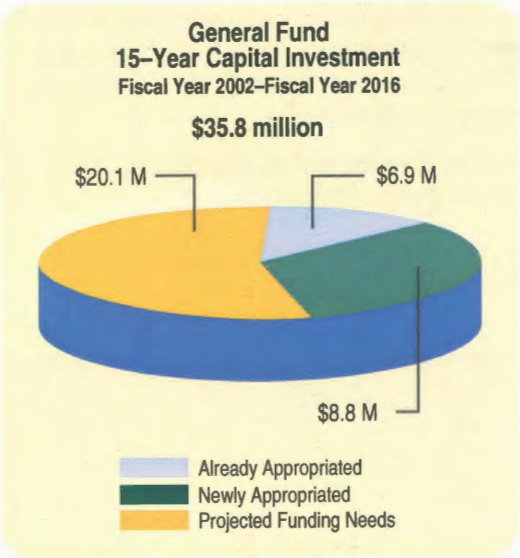
- Headquarter Consolidation Project (Building and site improvement)

MAJOR CAPITAL PROJECTS—CURRENT

- Headquarter Consolidation Project (Mitigation for Environmental Impact)
- Building Modification—Crest Building
- Almaden and Winfield Campus
- Information Systems Master Plan

MAJOR CAPITAL PROJECTS—FUTURE

None identified at this time



The estimated fifteen-year capital investments, from FY 2002 to FY 2016, to complete current and future capital projects is $35.8 million, with $6.9 million appropriated by the Board of Directors in previous years, $8.8 million newly appropriated for FY 2002 and 2003, and $20.1 million projected future funding needs.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
602015	Headquarters	25,014	63	597	10	0	0	0	0	0	0	0	0	0	25,684
602020	Building Modifications Crest	82	59	481	338	0	0	0	0	0	0	0	0	0	969
602023	Almaden and Winfield	20	6,770	667	883	7,734	4,100	0	0	0	0	0	0	0	20,174
602751 through 602758	Information Systems Master Plan	0	0	2,473	3,306	5,674	815	0	0	0	0	0	0	0	12,268
	Total	**25,115**	**6,891**	**4,218**	**4,536**	**13,408**	**4,915**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**59,084**
	Total (with inflation)	**25,115**	**6,891**	**4,218**	**4,536**	**14,615**	**5,505**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60,881**
	15-Yr Investment		**6,891**	**8,755**					**20,119**						**35,765**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

FUNDING SOURCES

Funding sources for the General Fund's capital improvement program is more limited than other funds. The General Fund does not have "Available Annual Revenue" due to its small annual operating revenue, and partnership opportunities are unlikely due to the nature of its capital projects. There are two categories of revenue sources available to the General Fund for funding capital projects. These sources include debt financing and capital reserve.

Same as its operating expenditures, the General Fund can charge back to all other District funds to finance the capital improvement program.

DEBT FINANCING

There is no plan at this time.

CAPITAL RESERVE

The General Fund will have accumulated approximately $96,000 in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		4,218	4,536	14,615	5,505											
Funding Sources																
Debt FInancing		0	0													
Available Annual Revenue		4,722	4,748													
Partnerships (See appendix for details)		0	0													
Total Funding Sources		4,722	4,748													
Balance Increase (decrease) to Capital Reserve		504	212													
Capital Reserve		96	600	811												
Increase (decrease) to Capital Reserve		504	212													
Designated for Future Years Capital Reserve	96	600	811													

The General Fund has a two-year financial planning horizon for forecasting its funding sources. Based on the two-year plan, the General Fund will have approximately $811,000 capital reserve at the end of FY 2003, which is not adequate to meet the projected funding needs beyond FY 2003. Staff is in the process of developing a long–term financial model to plan for the funding sources and their potential impacts on the seven Flood Protection and Stream Stewardship Funds and Water Enterprise Fund.

Note: Due to the uncertainty of the scope for Almaden and Winfield Campus Project, the projected funding needs are very preliminary. The projected funding needs could be larger when the scope of project is determined.

Project Number:
602015

Sponsoring Division:
Technical Services

Project Manager:
Sherban Duncan

OVERVIEW

OBJECTIVES

- Provide a safe and productive work environment for District employees.

BENEFITS

- Consolidated campus for most district employees, improved communications, reduced rent and reduced telephone connection charges
- Wildlife habitat restored and enhanced
- A canopy of trees at maturity
- Selected areas stabilized and planted with riparian species native to the Santa Clara Valley
- An aesthetic arboreal visual effect created along the eastern boundary of district property

SCOPE OF WORK

- Planning, design and construction of headquarters building and parking lot (completed)
- Planning, design and construction of a revegetation project to mitigate the environmental impacts of the project.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

September 1988 to August 2002.

With construction of the Headquarters Building complete, the landscape is still maturing.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

On the shores of the Alamitos Pond. This is the rear entrance to the Headquarters Building.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
602015	Headquarters Consolidation	25,014	63	597	10	0	0	0	0	0	0	0	0	0	25,684

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Building Modifications–Crest

Project Number:
602020

Sponsoring Division:
Technical Services

Project Manager:
Sherban Duncan

OVERVIEW

OBJECTIVES

- Provide funds for necessary tenant improvements to address the planned use of the facility

SCOPE OF WORK

Planning, design and construction to modify the Crest Building for its planned use.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

To be determined

POTENTIAL COST SHARING

None

Plans for a daycare facility are in the works. Some building modifications maybe necessary to accommodate this facility.

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

The Crest Building is currently used for conferences and is planned to be the location of an on-site daycare facility.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
602020	Building Modifications–Crest	82	59	481	338	0	0	0	0	0	0	0	0	0	959

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
602023

Sponsoring Division:
Technical Services

Project Manager:
Sherban Duncan

OVERVIEW

OBJECTIVES

- To maximize utilization of the Administration, Maintenance, Almaden and Winfield Corporation Yard Buildings, including the Administration Warehouse, and surrounding land, with a focus on flexibility, operational efficiency, and increased customer service.
- To improve on-site traffic flow patterns and parking configurations to maximize safety and efficiency.
- To improve public access to the Winfield light rail station from Almaden Expressway.
- To improve staff access to and from the Almaden and Winfield Corporation Yard Buildings.
- To ensure that District facilities are safe and provide for a healthy work environment.

BENEFITS

- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

To achieve the project objectives, the Capital Program Services Division will provide project management services to complete the engineer's report and environmental document for Board approval. This effort will require coordination with various users of the facilities. Design preparation of plans and specification and construction will follow the Board approval of the recommended project.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

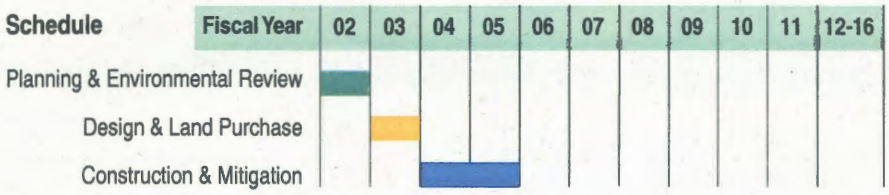
INITIATION AND COMPLETION DATES

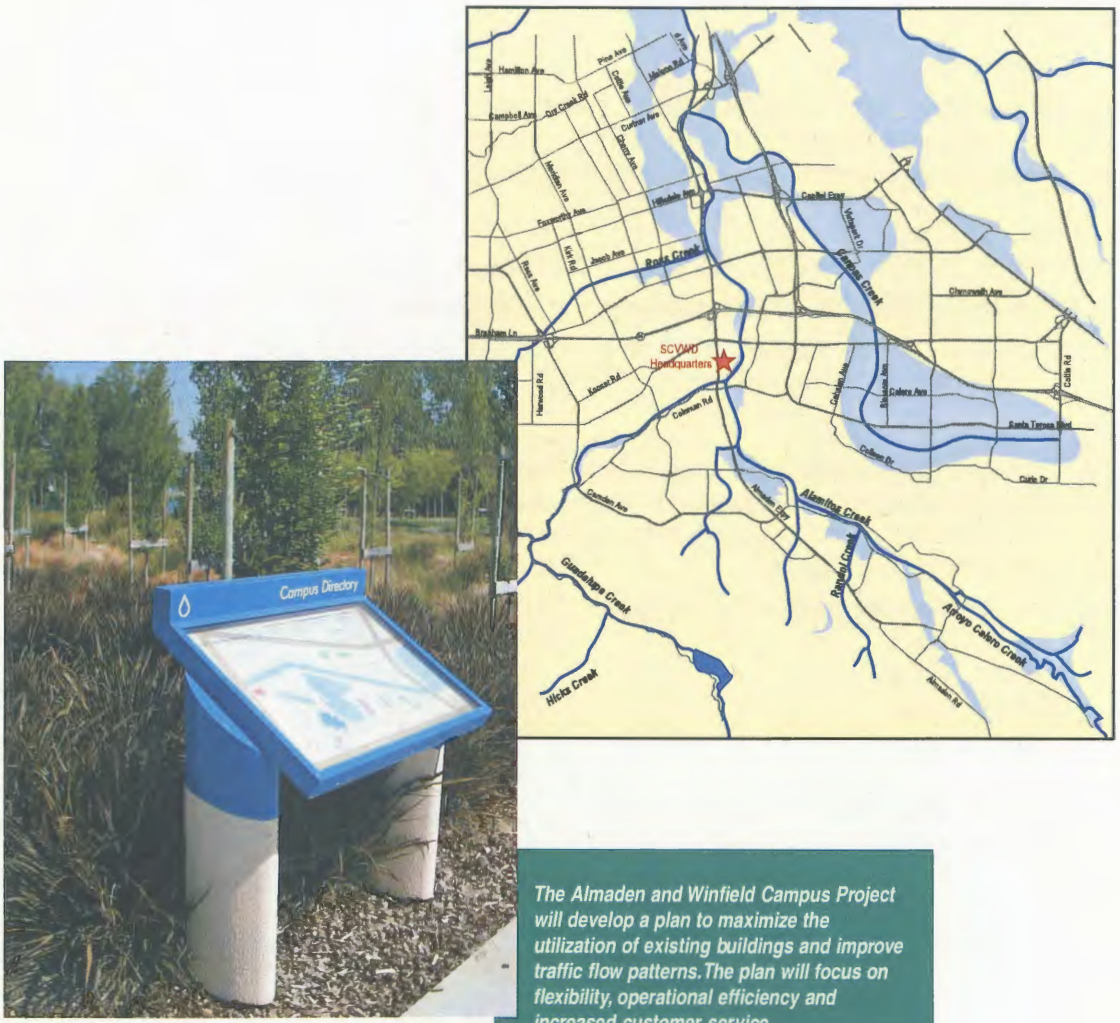
January 2001 to June 2005

POTENTIAL COST SHARING

None

SCHEDULE





The Almaden and Winfield Campus Project will develop a plan to maximize the utilization of existing buildings and improve traffic flow patterns. The plan will focus on flexibility, operational efficiency and increased customer service.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
602023	Almaden and Winfield Campus	20	6,770	667	883	7,734	4,100	0	0	0	0	0	0	0	20,174

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
602751, 602752, 602753
602754, 602755, 602756
602757, 602758

Sponsoring Division:
Information Management

Project Manager:
IMPU Program Manager

OVERVIEW

OBJECTIVES

- The objective for this project for fiscal year 2002 and beyond, defined as Phase III of the Information Systems Master Plan (ISMP), is to implement the initiatives identified and recommended by the ISMP that will meet District information management needs.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

Establish a Program Management Office within the Information Management Division and begin the process to develop implementation teams for the specified systems defined in the ISMP. Each team will develop specific implementation plans as each system development project is defined.

602751 = Information Technology Unit Upgrade
602752 = Web
602753 = SCADA
602754 = CMMS
602755 = GIS
602756 = ERP
602757 = WRIS
602758 = EDMS

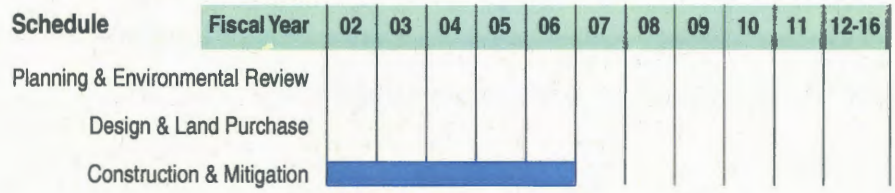
OPERATING BUDGET IMPACTS

Operating budget impacts will be developed in the implementation phase of each system.

INITIATION AND COMPLETION DATES

Phase II of the ISMP produced a long-range information systems master plan to serve as a framework for district information systems and infrastructure development and was completed in fiscal year 2001. Phase III will be a multiyear project starting July 1, 2001 and is expected to take 3 to 5 years to complete.

SCHEDULE



Planning session being held by the Information System Master Plan oversight committee.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
602751	ISMP ITU Upgrade	0	0	10	0	0	0	0	0	0	0	0	0	0	10
602752	ISMP Web	0	0	96	781	338	0	0	0	0	0	0	0	0	1,215
602753	ISMP SCADA	0	0	4	128	2,732	0	0	0	0	0	0	0	0	2,864
602754	ISMP CMMS	0	0	44	1,163	143	0	0	0	0	0	0	0	0	1,350
602755	ISMP GIS	0	0	0	52	1,443	232	0	0	0	0	0	0	0	1,726
602756	ISMP ERP	0	0	2,231	179	0	0	0	0	0	0	0	0	0	2,410
602757	ISMP WRIS	0	0	89	839	0	0	0	0	0	0	0	0	0	928
602758	ISMP EDMS	0	0	0	163	1,019	583	0	0	0	0	0	0	0	1,765
Total		0	0	2,473	3,306	6,674	815	0	0	0	0	0	0	0	12,268

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

WATER UTILITY ENTERPRISE

EXISTING

- Treated Water Pipeline
- Raw Water Pipeline or Canal
- Injection Well
- Recharge Ponds
- Water Treatment Plant
- Pumping Plant
- Hydroelectric Facility
- Recycled Water Facility
- Treated Water Reservoir

PROPOSED

- Treated Water Pipeline
- Raw Water Pipeline or Canal

ABBREVIATIONS

(The agency indicated in parentheses owns the facility)

DWR	State Department of Water Resources
SFWD	San Francisco Water Department
SCRWA	South County Regional Wastewater Authority
SCVWD	Santa Clara Valley Water District
USBR	U.S. Bureau of Reclamation
PPWD	Pacheco Pass Water District
WTP	Water Treatment Plant
City	City-owned Facility
SJWC	San Jose Water Company

Santa Clara Valley Water District

PROGRAM OVERVIEW

The District's Water Utility (Utility) provides a reliable supply of healthy, clean drinking water to residents, businesses and visitors of the Santa Clara County (County), and protects, enhances, or restores the County's watersheds, streams, and the natural resources. The Utility is operated as a private business enterprise. It produces goods, delivers the goods to its customers, and charges the customers to recover the costs of production and delivery.

Goods produced by the Utility

- Treated water
- Raw water

Customers of the Utility

- 1.7 million people
- thousands of businesses in Santa Clara County
- watersheds and streams

To ensure the quality and quantity of the goods and cost-effective investments of customer dollars, the Utility operates a complex system of infrastructures to perform comprehensive and integrated functions as follows.

Infrastructures to perform the functions of obtaining, purchasing, and protecting the Utility's sources of water supply:

- 10 surface reservoirs
- 3 pump stations
- groundwater basin

Infrastructures to perform the functions of distributing raw water to the Utility's groundwater recharge facilities and three treatment plants:

- 393 acres of groundwater recharge ponds
- 17 miles of canals
- 103 miles of raw water pipeline.

Infrastructures to perform the function of treating raw water and producing high-quality drinking water:

- 3 water treatment plants

Infrastructures to perform the function of distributing treated water to the Utility's customers:

- 42 miles of treated water pipeline.

WATER ENTERPRISE FUND

The Utility's assets, liabilities, equity, revenue, and expenditures or expenses are accounted for in the Water Enterprise Fund. The intent of the Enterprise Fund is that the continuing cost of providing and delivering goods and associated functions be financed or recovered primarily through user charges.

Therefore, user charges are the main sources of revenue for the Water Enterprise Fund. They are charges levied on all groundwater extracted within Zone W-2 and Zone W-5 of the District and from the sale of approximately 130,000 acre-feet of treated water. Other water charges are made for surface water diversions and sales of recycled water in the Gilroy area.

- Zone W-2 encompasses the Santa Clara Valley Groundwater basin north of Metcalf Road. It includes those groundwater-producing facilities that benefit from recharge of the basin with local and imported water.

- Zone W-5 is comprised of the entire groundwater basin from Metcalf Road south to the Pajaro River.

Cost Centers of the Water Utility Program

Under uniform accounting practices adopted by the State of California, it is necessary to divide expenditures of the Water Enterprise into various categories called cost centers. Each cost center contains all the anticipated expenditures associated with the infrastructure and functions within the particular cost center.

- Source of Supply
- Raw Water Transmission & Distribution
- Water Treatment
- Treated Water Transmission & Distribution
- Administration & General

CAPITAL IMPROVEMENT PROGRAM

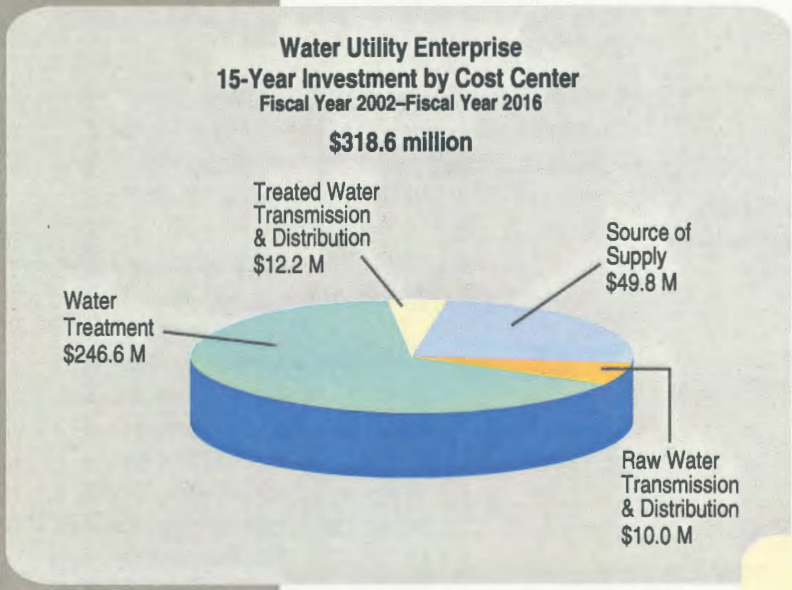
In general, the Utility's capital improvement program accomplishes the following two outcomes:

1. Ensure the reliability and integrity of the Utility's infrastructure
2. Facilitate or enhance the Utility's abilities to produce and deliver goods and perform associated functions.

During the last two decades, the Utility's capital improvement program was focused on building new facilities to enhance its ability to produce and deliver goods and perform associated functions. In the 1980s and early 1990s, the Utility embarked on an aggressive capital improvement program to implement the strategies identified in the 1975 Water Supply Master Plan. New raw water pipelines, treated water pipelines, and treatment plants were constructed.

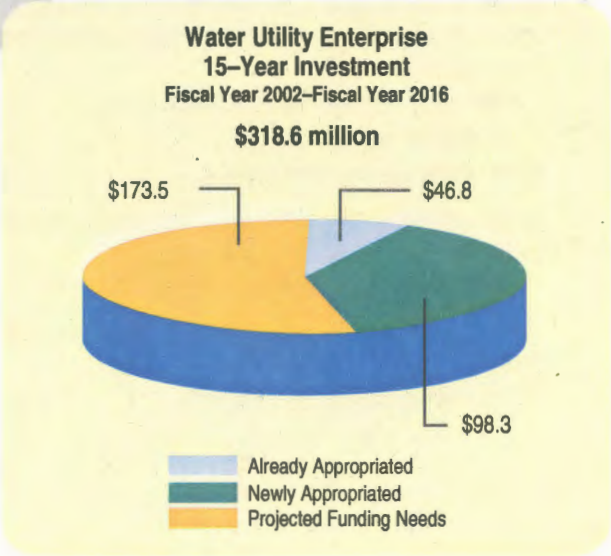
With the aging of the Utility's infrastructures and more stringent water quality, health and safety, and work environment regulations, it is anticipated that the Utility's capital improvement program for the next 15 years will focus on ensuring the reliability and integrity of its infrastructures.

The Utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. This plan will serve as the blue print for identifying new capital projects. The Utility's Fifteen-Year Capital Improvement Program will be more fully developed after the Asset Management Plan is completed.



Currently, the Utility plans to invest $318.6 million in its capital improvement program. The 15-year program total is distributed among the four cost centers, with $46.8 million already appropriated by the Board of Directors in previous years, $98.3 million newly appropriated in FY 2002 and 2003, and $173.5 million projected future funding needs. As stated above, the projected future funding needs will be larger after the asset management plan is developed.

Due to the unique needs of its infrastructure, each cost center has a separate capital improvement program. Detailed descriptions of the capital improvement program for each cost center, including major capital projects completed, and the scope, schedule and cost of the current and future projects are provided in the following sections. Each section represents a cost center of the Utility.



SCHEDULE AND COST

Current & Future Capital Projects

(in thousands $, present worth)

	Est. Actual*	Balance Remain*	Newly Appropriated		Projected Funding Needs									Est. Total Cost
Fiscal Year	91-01	01	02	03	04	05	06	07	08	09	10	11	12-16	
Total Source of Supply	9,393	1,713	5,727	7,367	8,318	24,920	0	0	0	0	0	0	0	57,440
Total Raw Water Transmission & Distribution	8,854	5,450	1,976	749	792	610	310	0	0	0	0	0	0	18,740
Total Water Treatment	87,007	35,349	11,169	68,795	72,390	6,155	8,869	31,451	1,694	1,789	472	340	0	325,480
Total Treated Water Transmission & Distribution	4,380	4,258	1,433	1,144	360	1,150	2,903	554	0	0	0	0	0	16,181
Total Water Enterprise	109,634	46,771	20,305	78,054	81,860	32,835	12,082	32,005	1,694	1,789	472	340	0	417,841
Total Water Enterprise (with inflation)	109,634	46,771	20,305	78,054	84,318	34,835	13,202	36,022	1,964	2,136	581	431	0	428,254
15-Yr Investment		46,771	98,359					173,489						318,620

CAPITAL PROGRAM FUNDING SOURCES

AVAILABLE ANNUAL REVENUE

For the next ten years, on a yearly basis, the Water Enterprise Fund will have an average of approximately $10 million available annual revenue for its capital program.

DEBT FINANCING

In 2000, the Water Enterprise Fund issued revenue bonds to raise $54.9 million in financing for the capital improvement program. For the next six years, the water Enterprise Fund plans to issue more revenue bonds, currently estimated to total $225 million to finance a portion of the future capital improvement program.

PARTNERSHIP

San Luis Bypass and Storage

The San Luis Bypass and Storage project is funded by the Department of Water Resources (DWR). The DWR will pay 100 percent of the feasibility, planning and environmental studies, which are estimated to be $14.8 million. It is anticipated that DWR will reimburse annual District expenses in the following years.

Central Pipeline at Highway 87

The Central Pipeline at Highway 87 project is cost-shared with Caltrans, Santa Clara Valley Transportation Authority (VTA), and the District. The District will pay 31percent of total project costs. The District has advanced the VTA's share of the project costs and anticipates reimbursement in the amount of $212,000 from VTA in 2003.

Central Pipeline at Capital Ave and Berryessa

The Central Pipeline at Capital Avenue and Berryessa project is cost-shared with VTA and the District. VTA will reimburse the cost of relocating the manhole, estimated at about $150,000.

CAPITAL RESERVE

The Water Enterprise Fund will have accumulated approximately $5.8 million in its capital reserve at the beginning of FY 2002.

SOURCE & FLOW OF FUNDS TO MEET PROJECTED FUNDING NEEDS

(in thousands $, inflated)

Fiscal Year	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Projected Funding Needs with inflation (See Schedule and Cost chart for details)		20,305	78,054	84,318	34,835	13,202	36,022	1,964	2,136	581	431	0	0	0	0	0
Funding Sources																
Revenue Bond Proceeds		22,664	63,603	70,195	27,258	0	40,887	0	0	0	0	0	0	0	0	0
Available Annual Revenue		11,861	3,690	6,215	8,394	7,058	11.477	7,224	13,060	15,231	18,750	10,000	10,000	10,000	10,000	10,000
Partnerships (See appendix for details)		0	3,700	2,749	5,013	3,700	0	0	0	0	0	0	0	0	0	0
Total Funding Sources		34,525	70,993	79,159	40,665	10,756	52,364	7,224	13,060	15,231	18,750	10,000	10,000	10,000	10,000	10,000
Balance Increase (decrease) to Capital Reserve		14,220	(7,061)	(5,159)	5,830	(2,444)	16,342	5,260	10,924	14,650	18,319	10,000	10,000	10,000	10,000	10,000
Capital Reserve		5,865	20,085	13,024	7,865	13,695	11,251	27,593	32,853	43,777	58,427	76,746	86,746	96,746	106,746	116,746
Increase (decrease) to Capital Reserve		14,220	(7,061)	(5,159)	5,830	(2,444)	16,342	5,260	10,924	14,650	18,319	10,000	10,000	10,000	10,000	10,000
Designated for Future Years Capital Reserve	5,865	20,085	13,024	7,865	13,695	11,251	27,593	32,853	43,777	58,427	76,746	86,746	96,746	106,746	116,746	126,746

WATER UTILITY ENTERPRISE
SOURCE OF SUPPLY

EXISTING

- Treated Water Pipeline
- Raw Water Pipeline or Canal
- Injection Well
- Recharge Ponds
- Water Treatment Plant
- Pumping Plant
- Hydroelectric Facility
- Recycled Water Facility
- Treated Water Reservoir

PROPOSED

- Treated Water Pipeline
- Raw Water Pipeline or Canal

ABBREVIATIONS

(The agency indicated in parentheses owns the facility)

DWR	State Department of Water Resources
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SCRWA	South County Regional Wastewater Authority
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WTP	Water Treatment Plant
City	City-owned Facility
SJWC	San Jose Water Company

Santa Clara Valley Water District

SOURCE OF SUPPLY

DESCRIPTION

The Source of Supply Cost Center contains all the anticipated expenditures, including capital investments, related to obtaining, producing, and protecting a water supply; including all conservation, recycling, and importation costs. The infrastructure includes reservoirs, dams, and pump stations. The major functions include pumping, surface water storage, surface water importation, water conservation, water recycling partnerships and assistance, and groundwater and surface water quality protection.

CAPITAL IMPROVEMENT PROGRAM

MAJOR CAPITAL PROJECTS—COMPLETED IN THE PAST FIVE YEARS

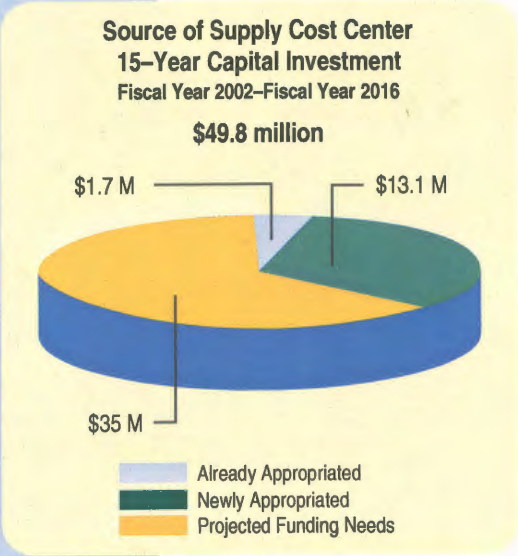
- Lexington Dam Freeboard Restoration
- Vasona Dam Radial Gates Replacement
- Abandonment of Two 24-Inch Concrete Pipes at Vasona Dam
- Lenihan Dam Outlet Repairs

MAJOR CAPITAL PROJECTS—CURRENT

- Almaden Dam Outlet Works
- Fellows Dike Rehabilitation
- Lenihan Dam Outlet Modifications
- San Luis Bypass and Storage
- Santa Clara Tunnel Landslide
- South County Recycled Water Improvements
- Water Facilities Sign Project

MAJOR CAPITAL PROJECTS—FUTURE

- Anderson Reservoir Bank Erosion
- Guadalupe Dam Outlet Works Rehabilitation
- Calero Dam Outlet Works Rehabilitation
- Almaden Dam Instrumentation
- Diversion Dam Improvement



As stated in the Program Overview, the Utility plans to conduct a comprehensive evaluation of its infastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for source of supply infrastructures is complete.

The estimated fifteen-year investments from FY 2002 to FY 2016, to complete the current and future projects are $49.8 million, with $1.7 million already appropriated by the Board of Directors in previous years, $13.1 million newly appropriated for FY 2002 and 2003, and $35 million projected funding needs for future years.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
910904 through 910906	South County Recycled Water	5,879	206	1,541	581	1,995	0	0	0	0	0	0	0	0	10,202
911504	Water Facilities Sign	491	46	102	107	0	0	0	0	0	0	0	0	0	747
912107	San Luis Bypass and Storage	0	0	2,264	3,823	5,013	3,700	0	0	0	0	0	0	0	14,800
912203	Santa Clara Tunnel Landslide	1,471	73	152	0	0	0	0	0	0	0	0	0	0	1,696
918501	Almaden Dam Outlet	229	391	1,016	977	380	4,715	0	0	0	0	0	0	0	7,709
918703	Fellows Dike	243	326	413	578	470	4,874	0	0	0	0	0	0	0	6,903
919005	Lenihan Dam Outlet	1,080	673	238	1,301	460	11,631	0	0	0	0	0	0	0	15,384
91C068	Anderson Reservoir Bank Erosion	0	0	0	0	not available									
91C069	Diversion Dam	0	0	0	0	not available									
91C070	Guadalupe Dam Outlet Works	0	0	0	0	not available									
91C071	Calero Dam Outlet Works	0	0	0	0	not available									
91C072	Alamaden Dam Instrumentation	0	0	0	0	not available									
	Total	**9,393**	**1,714**	**5,727**	**7,367**	**8,318**	**24,920**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**57,440**
	Total (with inflation)	**9,393**	**1,714**	**5,727**	**7,367**	**8,568**	**26,438**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**59,208**
	Future Investment		**1,714**	**13,094**			**35,006**								**49,815**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

Project Number:
910904, 910905, 910906

Sponsoring Division:
Water Supply Management

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Provide a modern water recycling system to preserve the existing resources.
- Adopt water conservation program and increase the use of recycled water in the South County area.
- Increase the reliability of the county's long-term water supplies, consistent with the Integrated Water Resources Project (IWRP)
- To fulfill the District's Partnership agreements with SCRWA, the City of Gilroy and the City of Morgan Hill to operate and expand the South County Recycled Water System.

BENEFITS

- Policy E-1, Article 1.1.6 – "Water recycling is expanded consistent with the District's Integrated Water Resource Plan (IWRP) within Santa Clara County."

SCOPE OF WORK

Based on the agreement with South County Recycled Water Authority (SCRWA), the District paid SCRW to perform planning, design, preparation of plans and specifications, and construction of the following projects. The District is responsible for administration of the construction contracts for the following projects:

- Booster pump at Christmas Hill Park (910904).
- Reservoir at Eagle Ridge Golf Course (910904).
- Thomas Road water line extension (910904).
- Rehabilitation of existing eight-mile long, 12-inch diameter pipeline. (910906)

The District is responsible for planning, design, and preparation of plans and specifications, construction and contract administration for the following project:

- New recycle water pipeline from Santa Clara Conduit to the reservoir at Eagle Ridge Golf Course (910905).

OPERATING BUDGET IMPACTS

Operating impacts are anticipated and will be determined in the near future.

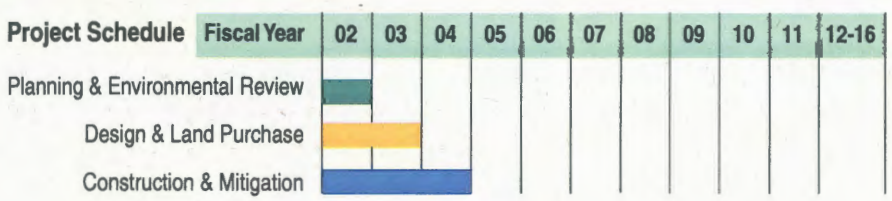
INITIATION AND COMPLETION DATES

June 1998 to June 2004.

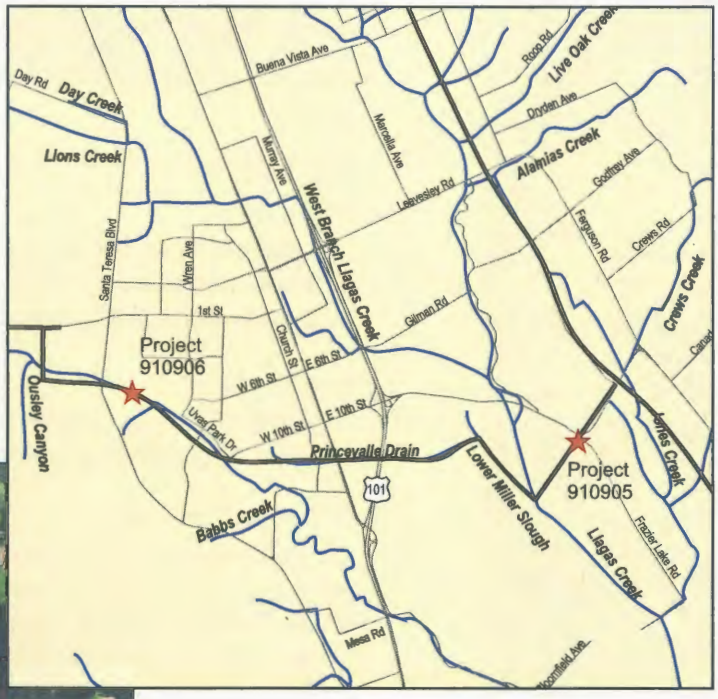
POTENTIAL COST SHARING

None.

SCHEDULE



Excavation for 1.5 million gallon recycled water reservoir above Eagle Ridge Golf Course in Gilroy.



★ Project Location

Retaining wall piles for 1.5 million gallon recycled water reservoir above Eagle Ridge Golf Course in Gilroy.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
910904	South County Recycled Water Improvements	5,879	206	244	122	0	0	0	0	0	0	0	0	0	6,450
910905	Recycled Water Connect to Santa Clara Conduit	0	0	198	378	1,479	0	0	0	0	0	0	0	0	2,055
910906	Recycled Water PL Rehab Coord with SCRW	0	0	1,099	82	516	0	0	0	0	0	0	0	0	1,697
Total		5,879	206	1,541	581	1,995	0	0	0	0	0	0	0	0	10,202

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
911504

Sponsoring Division:
Office of Chief Operating Officer

Project Manager:
Gerry Uenaka

OVERVIEW

OBJECTIVES

To provide public education, which is required in order to increase understanding of the importance and value of water supply facilities. The identifying logo on each sign or bench reinforces the visibility of the water district within the community.

BENEFITS

- Policy EL-1 – "...The CEO/GM shall not endanger the organization's public image or credibility, particularly in ways that would hinder its accomplishment of mission."

SCOPE OF WORK

This project identifies locations where the District has a presence or has completed a project, and installs signs at these locations to educate the reader about water issues while emphasizing the role of the District in their everyday lives. The signs, benches or markers are installed according to a prioritized list, which uses public traffic, visibility and relevance as the criteria to rank the order of installation.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

July 1999 to June 2003.

POTENTIAL COST SHARING

None

SCHEDULE

Project Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

Major district facilities such as ponds, dams and reservoirs are being identified with our pylon sign such as this one located at the Kooser Groundwater Recharge Ponds.

This interpretive bench is located at the Oka Groundwater Recharge Ponds and is an example of the 132 benches being completed as part of this project.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Projected Funding Needs									Est. Total Cost
		91-01	01	02	03	04	05	06	07	08	09	10	11	12-16	
911504	Water Facilities Sign	491	46	102	107	0	0	0	0	0	0	0	0	0	747

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
912107

Sponsoring Division:
Water Utility Operations

Project Manager:
Kurt Arends

OVERVIEW

OBJECTIVES

The actual project objectives will be determined during the initial phase of this project. The general purpose of the project is to resolve water quality and reliability issues associated with low water levels at San Luis Reservoir.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."

SCOPE OF WORK

- Facilitate consensus building among interested agencies to determine project objectives.
- Collect baseline information, including:
  - topographic survey
  - operational model; i.e. pumping, conveyance, etc.
  - environmental baseline
  - geotechnical baseline
- Complete a feasibility study to determine feasible alternatives to accomplish project objectives.
- Complete the planning study, environmental process, and obtain necessary regulatory permits.

The scope, schedule and cost of the design and construction phases will be defined when the planning study is complete.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from completing the current scope of work.

INITIATION AND COMPLETION DATES

April 2001 to March 2005 (Planning Phase only).

POTENTIAL COST SHARING

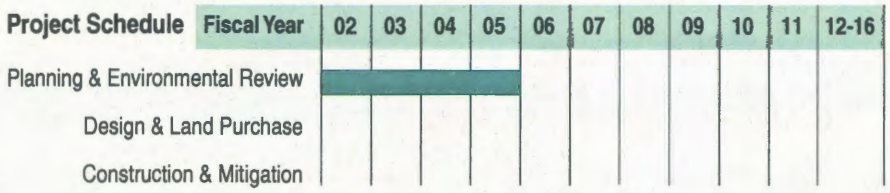
Yes.

Partnering Agencies: Department of Water Resources

Cost Sharing Formula: DWR will pay 100 percent of the feasibility, planning and environmental studies which are estimated to be $14.8 million.

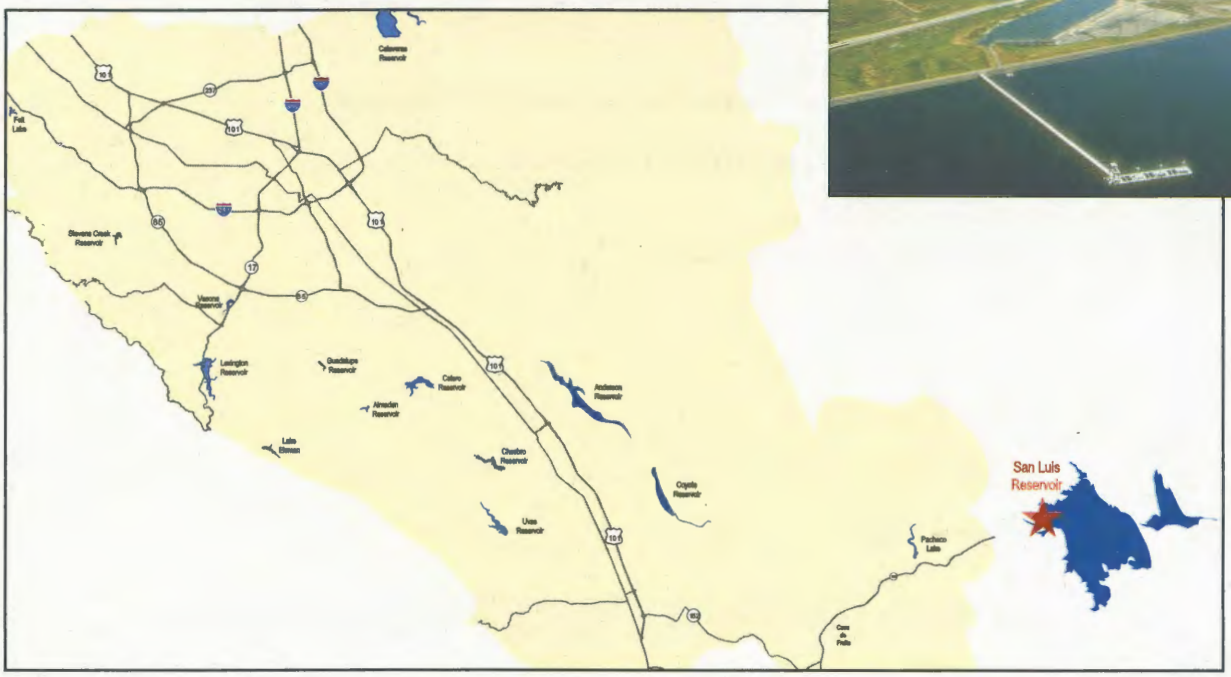
Reimbursement Schedule: It is anticipated that DWR will reimburse annual District expenses in the following year.

SCHEDULE



Aerial view of San Luis Bypass and storage

State and Federally owned San Luis Reservoir and O'Neill Forebay, source of the District's imported federal water supply.



★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
912107	San Luis Bypass and Storage	0	0	2,264	3,823	5,013	3,700	0	0	0	0	0	0	0	14,800

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. Amount shown in Cost Chart is the estimated total project cost.

Santa Clara Tunnel Landslide

Project Number:
912203

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- To repair the landslide area, thus reducing liability for the District.
- To prevent damage to the Santa Clara Conduit resulting from the landslide.

BENEFITS

- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

In March 1998, the District was notified that a landslide had occurred late in 1995 and early in 1996. The landslide occurred at the east portal of the Santa Clara Tunnel, San Felipe Project. The landslide moved downhill onto an adjoining, privately owned property. This project provides for the construction of measures to repair the landslide area, thus reducing the liability for the District.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

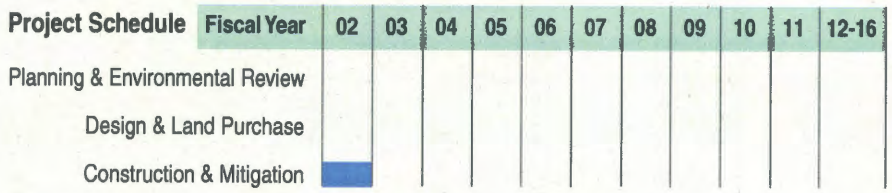
INITIATION AND COMPLETION DATES

April 1998 to June 2002.

POTENTIAL COST SHARING

None

SCHEDULE



Looking Southeasterly at the landslide and the cracks, north of the Santa Clara Conduit.

Looking Southerly at the landslide curve adjacent to the Santa Clara Conduit.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
912203	Santa Clara Tunnel Landslide	1,471	73	152	0	0	0	0	0	0	0	0	0	0	1,696

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Almaden Dam Outlet Works

Project Number:
918501

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Preserve and restore operating functions of Almaden Dam, including the intake tower
- Comply with California Division of Safety of Dams regulatory requirements.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And "...9. Fail to protect water rights, rights of way, and flood control facilities.

SCOPE OF WORK

The Almaden Dam Outlet Works Project will investigate structural integrity of the existing intake tower, outlet pipe and energy dissipation structures.

- Determine structural integrity and remaining life of the outlet works facilities, including intake structure, outlet pipe, and dissipation structures.
- Investigate the sediment loading rates into the reservoir.
- Estimate the remaining useful life of the facility as well as the expected life of any alternatives.
- Prepare remaining study and recommend a long–term, cost effective and environmentally sensitive solution to provide a reasonable operation life for the reservoir outlet works.
- Obtain DSOD approval and support for any work proposed on the facility.
- Obtain all necessary permits and regulatory clearances.
- Design and construct the approved project.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

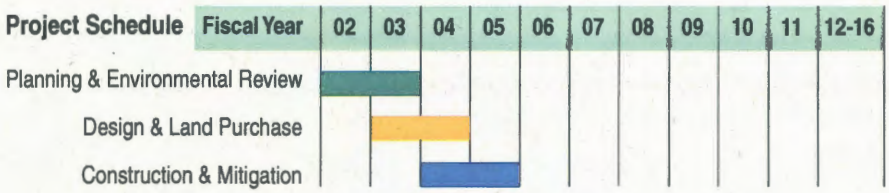
INITIATION AND COMPLETION DATES

October 2000 to June 2005.

POTENTIAL COST SHARING

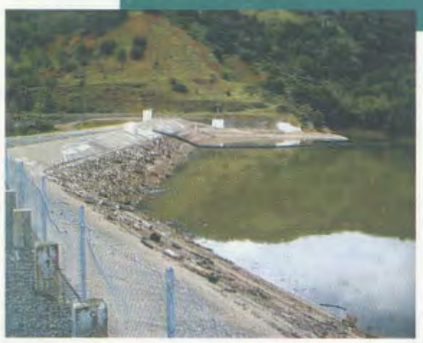
None

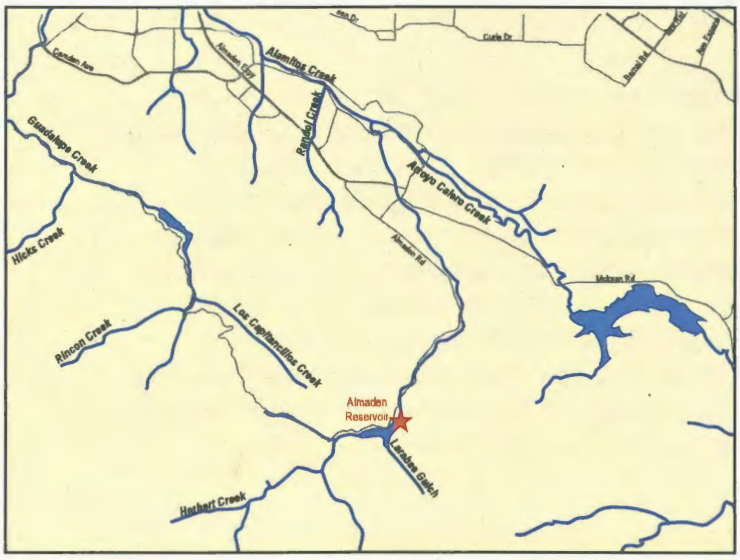
SCHEDULE



Looking East towards the outlet at the downstream side of the Dam.

Looking East at the Dam Crest and Spillway.





★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
918501	Almaden Dam Outlet Works	229	391	1,016	977	380	4,715	0	0	0	0	0	0	0	7,709

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
918703

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Obtain Division of Safety of Dams (DSOD) certification for Fellows Dike, which will facilitate full use of reservoir storage capacity by allowing impoundment of reservoir water against the dike.
- Preserve the safety and operation of the existing pump house.
- Reduce potential District liability from local flooding during storm events, if the dike is to remain.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water.
- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages.
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected inadequately maintained, or unnecessarily risked." and " ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

The planning phase for this project includes a geotechnical report, engineer's report, CEQA document and environmental permits. After Board approval of the engineer's report, the selected alternative will be used to prepare the plans, specifications and estimate. A geotechnical investigation of the current physical condition of the dike will identify alternatives for obtaining DSOD certification. The project will also evaluate and address site drainage issues within the dike's watershed, including the shotcrete drainage swale located west of the ranch, to identify alternatives for improving the current local drainage situation. Once alternatives have been identified, each will be evaluated for feasibility, cost and environmental considerations to determine the appropriate scope of work. Once a final implementation plan has been developed and approved, the project will proceed to develop contract documents and obtain the appropriate permits necessary to construct. Construction is included in the scope of this project.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

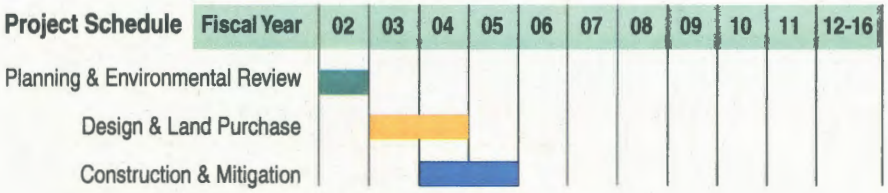
INITIATION AND COMPLETION DATES

October 2000 to June 2005

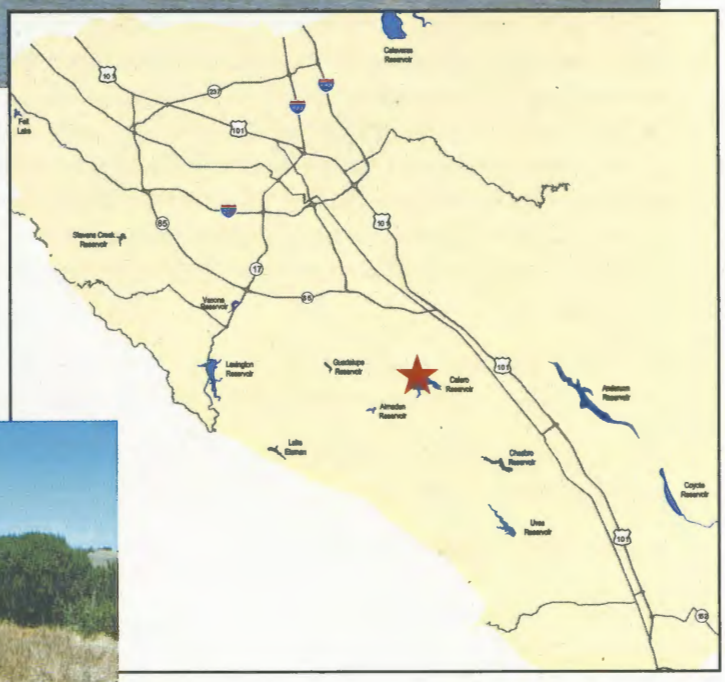
POTENTIAL COST SHARING

None

SCHEDULE



View of Fellows Dike from Calero Reservoir. The historic Bailey-Fellows House can be seen in the background.



View of the crest of Fellows Dike looking northeast.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
918703	Fellows Dike Rehabilitation	243	326	413	578	470	4,874	0	0	0	0	0	0	0	6,903

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Lenihan Dam Outlet Modifications

Project Number:
919005

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Preserve the operative functions of the Lenihan Dam, including the outlet pipe and the original design outflow discharge.
- Comply with the requirements of California Division of Safety of Dams (DSOD).

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.2 – "There is a reduced potential for flood damages."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked. " and " ...9. Fail to protect water rights, rights of way, and flood control facilities.

SCOPE OF WORK

The Lenihan Dam Outlet Works Modification Project will conduct a more in depth investigation and evaluation of the alternatives identified in the feasibility study prepared by URS Corporation. The planning phase of the project will result in a Planning Study consisting of an Engineer's Report and environmental document that identifies and evaluates possible alternatives for future design and construction. Once a preferred alternative has been identified and approved, the project will proceed with the design and preparation of plans and specifications. The project will obtain necessary regulatory permits and District Board approvals to proceed with construction of the approved project.

OPERATING BUDGET IMPACTS

Operating impacts will be determined during the planning phase.

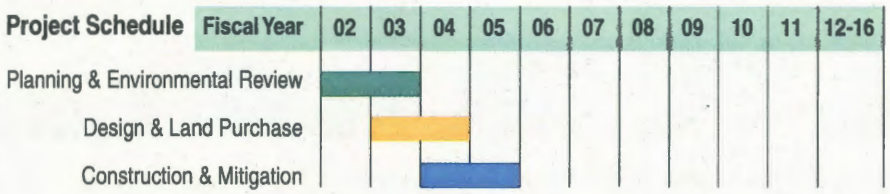
INITIATION AND COMPLETION DATES

October 2000 to June 2005

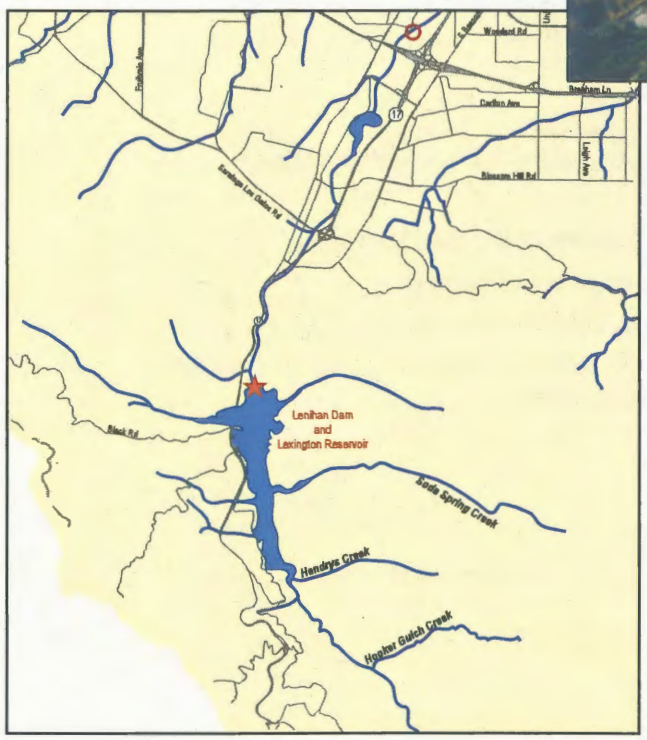
POTENTIAL COST SHARING

None

SCHEDULE



Aerial view of Lenihan Dam looking south.



★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
919005	Lenihan Dam Outlet Mods	1,080	673	238	1,301	460	11,631	0	0	0	0	0	0	0	15,384

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
91C068

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- To avoid costly future repairs with preventative maintenance and asset management.

BENEFITS

- Policy E-1, Article 1.1. – "There is a reliable supply of healthy clean drinking water."
- Policy E-1, Article 1.2.2.1. – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and " ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

Determine the extent of bank erosion and relationship to historical landslide areas.

- Identify land ownership.
- Conduct geotechnical assessment and determine causes of surface erosion.
- Determine District and interagency legal issues and obligations.
- Conduct analysis to determine feasible rehabilitation measures.
- Evaluate and select preferred method of rehabilitation, including preparation of a decision document, addressing CEQA, and obtaining permits
- Prepare construction contract documents.
- Construct the approved project.

OPERATING BUDGET IMPACTS

Operational impacts will be determined during the planning phase of the project.

INITIATION AND COMPLETION DATES

A project schedule is being developed.

POTENTIAL COST SHARING

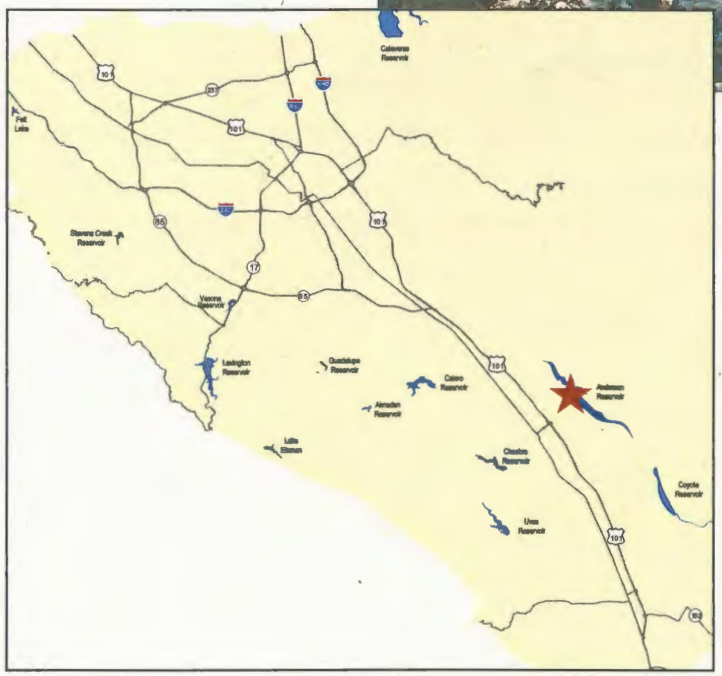
None

End of Manza Court vertical slope, high water contact.

SCHEDULE

Project Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase			Project Schedule is being developed.								
Construction & Mitigation											

Tree root system being undermined at Holiday Court gazebo.



Project Location

Trees and structures along Holiday Court.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
91C068	Anderson Reservior Bank Erosion	0	0	0	0	Project cost is being developed.									

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
91C069

Sponsoring Division:
Water Supply Management

Project Manager:
to be determined

OVERVIEW

OBJECTIVES

- Continual water supply reliability and water quality improvements.
- Improve District groundwater recharge operations.

BENEFIT

- Policy E-1, Article 1.1. – "There is a reliable supply of healthy clean drinking water."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and " ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

- Conduct analysis of replacement dam alternatives.
- Evaluate and select preferred replacement dam alternative.
- Prepare engineer's report, CEQA, design and construction contract documents.

OPERATING BUDGET IMPACTS

Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

A project schedule is being developed.

POTENTIAL COST SHARING

None

Coyote Steel Percolation Dam on Coyote Creek

SCHEDULE

Project Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase			Project Schedule is being developed.								
Construction & Mitigation											

Alamitos Drop Structure on Guadalupe River

Kirk Dam on Los Gatos Creek

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
91C069	Diversion Dam Improvement	0	0	0	0	Project cost is being developed.									

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Guadalupe Dam Outlet Works Rehabilitation

Project Number:
91C070

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Preserve the operational function of the Guadalupe Dam outlet works.
- Comply with Division of Safety of Dams (DSOD) requirements.

BENEFITS

- Policy E-1, Article 1.1. – "There is a reliable supply of healthy clean drinking water."
- Policy E-1, Article 1.2. – "There is a reduced potential for flood damages."
- Policy E-1, Article 1.2.2.2. – "There is clean, safe water in our creeks and bays."
- Policy E-1, Article 1.2.2.3. – "Groundwater supplies are sustained."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and " ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

- Investigate the current physical condition of the Guadalupe Dam Outlet Works.
- Determine the required measures and perform work needed to meet current DSOD standards.
- Determine the extent of wear to the 36-inch diameter steel liner and integrity of the concrete encasement.
- Determine intrusion of outlet flows into dam embankment.
- Conduct analysis to determine alternatives for improved upstream valve operations and appropriate rehabilitation measures.
- Evaluate and select preferred alternative for rehabilitation, including preparation of a planning study and environmental clearances.
- Design and prepare plans and specifications for the preferred alternative.
- Construct the approved project.

OPERATING BUDGET IMPACTS

Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

A project schedule is being developed.

POTENTIAL COST SHARING

None

SCHEDULE

Project Schedule	Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review												
Design & Land Purchase				Project Schedule is being developed.								
Construction & Mitigation												

Existing condition of the outlet pipe.

Existing condition of the outlet pipe.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
91C070	Guadalupe Dam Outlet Works Rehabilitation	0	0	0	0	Project cost is being developed.									

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Calero Dam Outlet Works Rehabilitation

Project Number:
91C071

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Preserve the operational function of the Calero Dam Outlet Works.
- Comply with Division of Safety of Dams (DSOD) requirements.

BENEFITS

- Policy E-1, Article 1.1. – "There is a reliable supply of healthy clean drinking water."
- Policy E-1, Article 1.2.2.2. – "There is clean, safe water in our creeks and bays."
- Policy E-1, Article 1.2.2.3. – "Groundwater supplies are sustained."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and " ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

- Determine the extent of sedimentation buildup around the intake structure.
- Conduct sediment analysis to determine mercury concentration and other contaminants
- Determine the integrity of the 42" sluice gate.
- Conduct reservoir drawdown analysis to determine feasibility of 30" downstream valve removal.
- Conduct analysis to determine appropriate rehabilitation measures on intake structure, possible sediment removal or extension of the intake.
- Evaluate and select preferred alternative for rehabilitation, including preparation of a planning study and environmental clearances.
- Prepare contract documents and conduct rehabilitation.

Removal of sediment to expose Calero intake structure

OPERATING BUDGET IMPACTS

Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

A project schedule is being developed.

POTENTIAL COST SHARING

None

SCHEDULE

Project Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase			Project Schedule is being developed.								
Construction & Mitigation											

★ Project Location

Installation of fish screens on Calero intake structure

Calero Dam and Reservoir

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
91C071	Calero Dam Outlet Works Rehabilitation	0	0	0	0	Project cost is being developed.									

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
91C072

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Provide adequate, modern instrumentation at Almaden Dam, as part of the District Dam Safety Plan and in accordance to District commitment to Division of Safety of Dams (DSOD).
- Upgrade Almaden Dam instrumentation to improve the ability to evaluate and monitor dam safety.
- Avoid additional operating restrictions from DSOD.

BENEFITS

- Policy E-1, Article 1.1. – "There is a reliable supply of healthy clean drinking water."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and " ...9. Fail to protect water rights, rights of way, and flood control facilities."

SCOPE OF WORK

This project includes preparation of contract documents and completion of construction for Almaden Dam instrumentation upgrades.

OPERATING BUDGET IMPACTS

Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

A project schedule is being developed.

POTENTIAL COST SHARING

None

SCHEDULE

Project Schedule	Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review												
Design & Land Purchase				Project Schedule is being developed.								
Construction & Mitigation												

This project will evaluate the need to upgrade instrumentation at the intake structure constructed in 1984.

Instrumentation at the energy dissipator/outlet structure, constructed in 1987, will be evaluated.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
91C072	Almaden Dam Instrumentation	0	0	0	0	Project cost is being developed.									

WATER UTILITY ENTERPRISE RAW WATER TRANSMISSION & DISTRIBUTION

EXISTING

- Treated Water Pipeline
- Raw Water Pipeline or Canal
- Injection Well
- Recharge Ponds
- Water Treatment Plant
- Pumping Plant
- Hydroelectric Facility
- Recycled Water Facility
- Treated Water Reservoir

PROPOSED

- Treated Water Pipeline
- Raw Water Pipeline or Canal

ABBREVIATIONS

(The agency indicated in parentheses owns the facility)

DWR	State Department of Water Resources
SFWD	San Francisco Water Department
SCRWA	South County Regional Wastewater Authority
SCVWD	Santa Clara Valley Water District
USBR	U.S. Bureau of Reclamation
PPWD	Pacheco Pass Water District
WTP	Water Treatment Plant
City	City-owned Facility
SJWC	San Jose Water Company

Santa Clara Valley Water District

RAW WATER TRANSMISSION & DISTRIBUTION

DESCRIPTION

The Raw Water Transmission and Distribution Cost Center contains all the anticipated expenditures, including capital investments, related to the distribution of raw water to the District's groundwater recharge facilities and three water treatment plants. The infrastructure includes raw water pipelines, turnouts, canals, percolation ponds and the use of creeks. The major functions include surface water transportation and delivery, groundwater recharge management, and stream and watershed management.

CAPITAL IMPROVEMENT PROGRAM

MAJOR CAPITAL PROJECTS—COMPLETED IN THE PAST FIVE YEARS

- Replacement of Radial Gates at Coyote Percolation Dam
- Almaden Valley Pipeline Cathodic Protection System
- Guadalupe River Fish Ladder
- Coyote Canal Diversion Fish Screen
- Coyote Percolation Dam Fish Ladder
- Penitencia Fish Facilities
- Masson Dam Fish Ladder/Screen

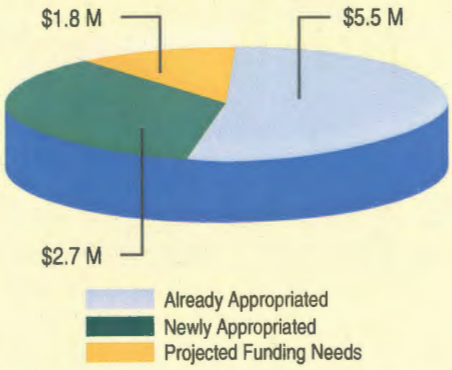
MAJOR CAPITAL PROJECTS—CURRENT

- Central Pipeline Protection at Route 87
- Central Pipeline Modifications at Capital Avenue and Berryessa Road
- Vasona Restroom Modifications
- Raw Water Control System
- Coyote Canal Extension Abandonment
- Kirk Ditch
- Almaden Calero Canal Rehabilitation
- San Pedro Recharge Facility

MAJOR CAPITAL PROJECTS—FUTURE

- Valve 906 Low-Flow Bypass

Raw Water Transmission & Distribution
15–Year Capital Investment
Fiscal Year 2002–Fiscal Year 2016
$10 million



As stated in the Program Overview, the Utility plans to conduct comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for raw water transmission and distribution infrastructures is complete.

The estimated fifteen-year investments from FY 2002 to FY 2016 to complete the current and future projects are $10.0 million, with $5.5 million already appropriated by the Board of Directors in previous years, $2.7 million newly appropriated for FY 2002 and FY 2003, and $1.8 million projected funding needs for future years.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
922502	Central Pipeline Protection at Route 87	639	148	3	9	0	0	0	0	0	0	0	0	0	799
922503	Central Pipeline Modifications, Capital Avenue & Berryessa	18	32	233	0	0	0	0	0	0	0	0	0	0	282
922607	Vasona Restroom Modification	65	62	8	3	400	0	0	0	0	0	0	0	0	538
923702	Raw Water Control System	3,724	360	1,040	60	0	0	0	0	0	0	0	0	0	5,184
924601	Coyote Canal Extension Abandonment	19	336	4	4	30	0	0	0	0	0	0	0	0	393
925302	Kirk Ditch	25	600	5	0	0	0	0	0	0	0	0	0	0	630
927201	Almaden Calero Canal Rehabilitation	376	3,333	408	561	348	600	300	0	0	0	0	0	0	5,926
927401	San Pedro Recharge Facility	3,988	580	275	111	15	10	10	0	0	0	0	0	0	4,989
92C073	Valve 906 Low Flow Bypass	0	0	0	0	Project cost is being developed.									
	Total	8,854	5,450	1,976	749	792	610	310	0	0	0	0	0	0	18,740
	Total (with inflation)	8,854	5,450	1,976	749	816	647	339	0	0	0	0	0	0	18,830
	15-Yr Investment		5,450	2,724						1,802					9,976

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

Central Pipeline Protection
at Route 87

Project Number:
922502

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Accommodate Caltrans Route 87 construction while maintaining the District's water supply and use of the Central Pipeline.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."

SCOPE OF WORK

This project provides for the design and construction of the relocation of Central Pipeline at Route 87, to be relocated at Mission Street and Guadalupe Parkway. This will accommodate construction of Highway 87.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

August 1997 to November 2002 (Completion date is dependant on Caltrans construction schedule.)

POTENTIAL COST SHARING

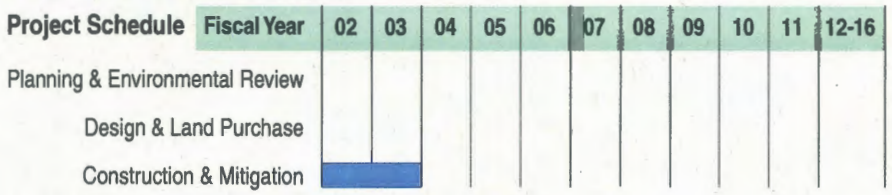
Yes

Partnering Agencies: Caltrans, Santa Clara Valley Transportation Authority (VTA), and the District.

Cost Sharing Formula: District will pay 31 percent of total project cost. The District has advanced VTA's share of the project costs and anticipates $212,000 reimbursement from VTA.

Reimbursement Schedule: It is anticipated that VTA will reimburse the District in fiscal year 2003.

SCHEDULE



Looking westerly at the installation of Central Pipeline near Guadalupe River.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
922502	Central PL Project at Route 87	639	148	3	9	0	0	0	0	0	0	0	0	0	799

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
Amount shown in the Cost Chart includes the District's share and VTA's portion of the total project costs.

Central Pipeline Modifications
at Capital Avenue & Berryessa Road

Project Number:
922503

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Provide adequate access to the Central Pipeline for routine maintenance and inspection.

BENEFITS

- Policy E-1, Article1.1 – "There is a reliable supply of healthy clean drinking water."

SCOPE OF WORK

The scope of work includes planning, design and construction of a manhole and in-line valve as required to meet the project objectives.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

January 2001 to June 2002

Potential Cost Sharing

Yes

Partnering Agencies: Santa Clara Valley Transportation Authority (VTA) and the District

Cost Sharing Formula: The District will pay for work on the in-line valve. VTA will reimburse the cost of relocating the manhole, estimated at about $150,000.

Reimbursement Schedule: It is anticipated that VTA will reimburse the District in fiscal year 2003.

SCHEDULE

Proposed new vault and manhole located on the Central Pipeline at the intersection of Capital Avenue and Berryessa Road, looking easterly.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
922503	Central PL Modifications at Capital Ave. & Berryessa	18	32	233	0	0	0	0	0	0	0	0	0	0	282

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.
Amount shown in the Cost Chart includes the District's share and VTA portion of the total project costs.

Project Number:
922607

Sponsoring Division:
Water Utility Operations

Project Manager:
Sherban Duncan

OVERVIEW

OBJECTIVES

- Provide a safe and productive work environment for staff at the Vasona Meter Test Facility, Pilot Plant, and Pump Station, by planning, designing, and constructing appropriate restroom and shower facilities at the Vasona Pump Station site.

BENEFITS

- A safe and productive work environment for employees.

SCOPE OF WORK

The initial planning phase of the project will develop a project work plan identifying project objectives, deliverables and milestones. The project will then proceed into planning and design and construction in accordance with the approved work plan.

OPERATING BUDGET IMPACTS

Minor operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

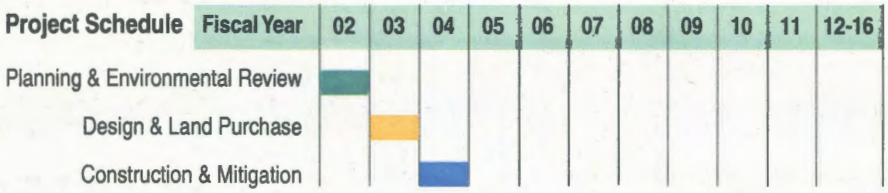
INITIATION AND COMPLETION DATES

July 1999 to June 2004.

POTENTIAL COST SHARING

None

SCHEDULE



Vasona Meter Shop where the existing restrooms are located.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
922607	Vasona Restroom Modifications	65	62	8	3	400	0	0	0	0	0	0	0	0	538

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
923702

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES:

- Ensure safe, reliable, and efficient operation and monitoring of all raw water transmission and distribution facilities on a real time basis.

BENEFITS

- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides hardware and software improvements to all controls sites of the raw water transmission and distribution system.

INITIATION AND COMPLETION DATES

October 1986 to June 2003

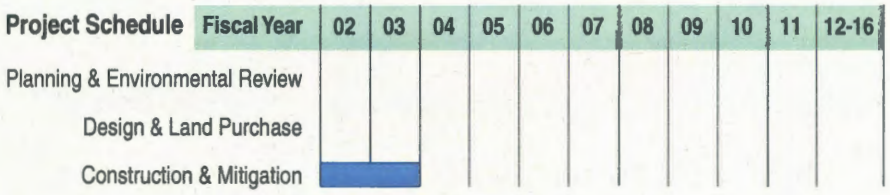
OPERATING BUDGET IMPACTS

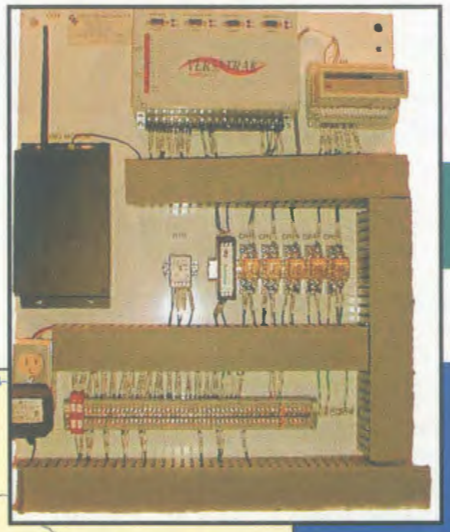
Minor operating impacts are anticipated and will be determined in the near future.

POTENTIAL COST SHARING

None

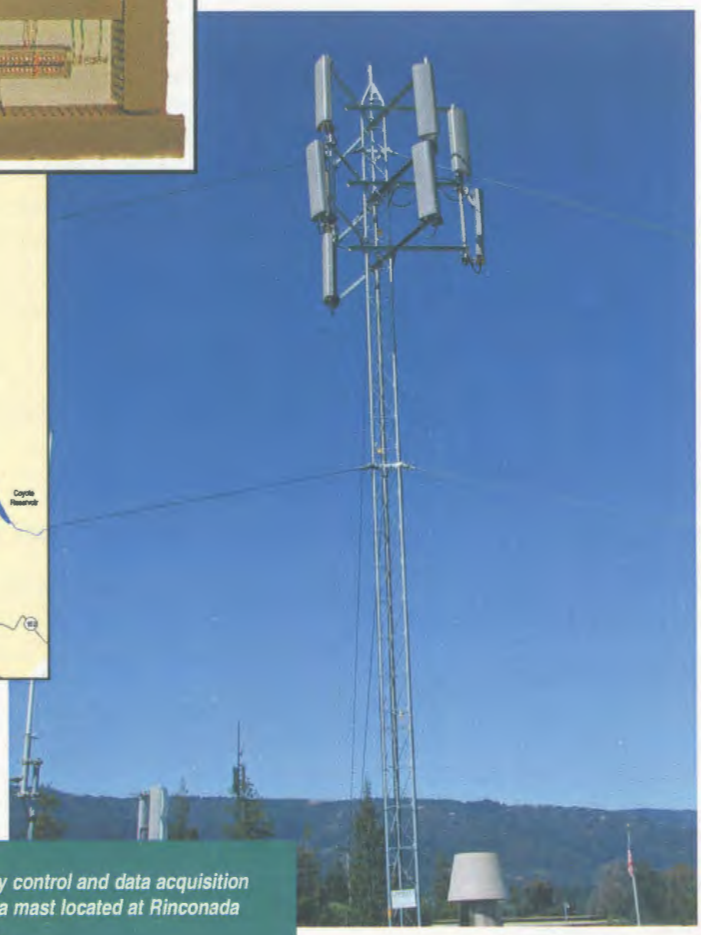
SCHEDULE





Raw water remote terminal unit at Coleman line valve.

Project Location



Raw water supervisory control and data acquisition master station antenna mast located at Rinconada Water Treatment Plant.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
923702	Raw Water Control System	3,724	360	1,040	60	0	0	0	0	0	0	0	0	0	5,184

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
924601

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- More effective use of the District Water Utility facilities.

BENEFITS

- Policy EL-1.4, Article 10 – "The CEO/GM shall not spend extravagantly, inefficiently, or in ways more costly than necessary."

SCOPE OF WORK

A preliminary design study will be required to determine the needed improvements and method of quitclaiming the parcels. If required, the approved CEQA documentation, dated October 1989, will be amended, and Phase 1 hazardous substance liability assessment will be performed. After the completion of this study, construction documents will be prepared, if required.

OPERATING BUDGET IMPACTS

A reduction in operating costs is anticipated and will be determined during the planning phase.

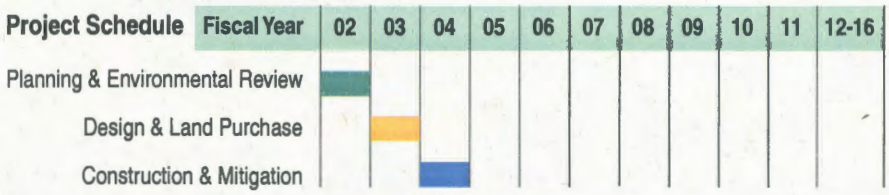
INITIATION AND COMPLETION DATES

October 2000 to March 2004 (planning phase only).

POTENTIAL COST SHARING

None

SCHEDULE



Coyote Canal at Piercy Road.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	04	05	06	07	08	09	10	11	12-16	Est. Total Cost
						Projected Funding Needs									
924601	Coyote Canal Extension Abandonment	19	336	4	4	30	0	0	0	0	0	0	0	0	393

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
925302

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- More effectively operate District Water Utility Facilities.
- Eliminate annual work required to maintain the open channel (by installing a 245-foot pipe) and replace deteriorated pipe under Curtner Avenue.

BENEFITS

- Policy EL-1.4, Article 10 – "The CEO/GM shall not spend extravagantly, inefficiently, or in ways more costly than necessary."

SCOPE OF WORK

- Planning, design and construction to convert the open channel section at Curtner Avenue to a closed conduit. (Completed)
- Conversion of 250 feet of open channel to closed conduit along White Oaks Road in the vicinity of trashrack to reduce maintenance problem.
- Relocation of Stream Gage Station #55 to upstream of Hwy 27 at the Oka Ponds and closing the top of "U" channel at the existing location with access vault.
- Diversion of local drainage to the storm drain in Curtner Avenue.

OPERATING BUDGET IMPACTS

Operating impacts will be determined during the planning phase.

INITIATION AND COMPLETION DATES

September 2000 to December 2001 (planning phase).

POTENTIAL COST SHARING

None

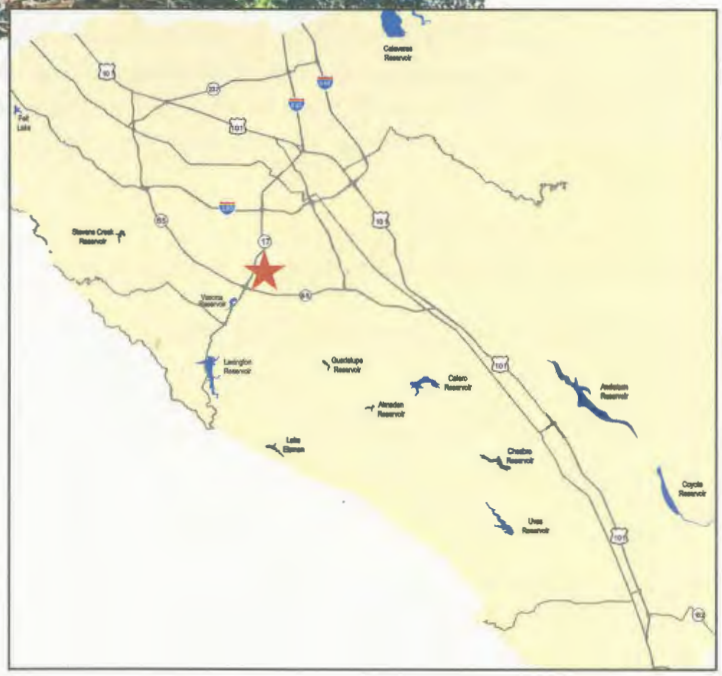
Kirk Ditch transitioning to conduit under Highway 17, near the proposed location of Stream Gage Station #55.

SCHEDULE

Project Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

Kirk Ditch transitioning to conduit under Camden Avenue along the westerly side of White Oaks Road.

★ Project Location



COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
925302	Kirk Ditch	25	600	5	0	0	0	0	0	0	0	0	0	0	630

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
927201

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Eliminate potential damage to adjacent property, thus reducing District liability.
- Avoid costly future repairs with preventative maintenance and asset management.
- Restore the capacity of Almaden-Calero Canal.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy clean drinking water."
- Policy E-1, Article 1.2.2.1 – "Homes, schools, businesses, and transportation networks are protected from flooding and erosion."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And " ... 9. Fail to protect water rights, rights of way, flood control facilities."

SCOPE OF WORK

This rehabilitation project will investigate and develop alternatives to meet the project objectives and recommend appropriate actions. The deliverables for the planning phase are a project plan, engineer's report, California Environmental Quality Act document, and environmental permits. Plans and specifications will be prepared, based on the preferred alternative, after Board approval of the engineer's report. Construction of the approved design is included.

OPERATING BUDGET IMPACTS

Operating impacts will be determined during the planning phase.

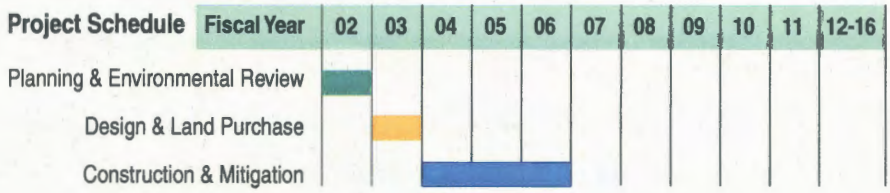
INITIATION AND COMPLETION DATES

October 2000 to June 2006

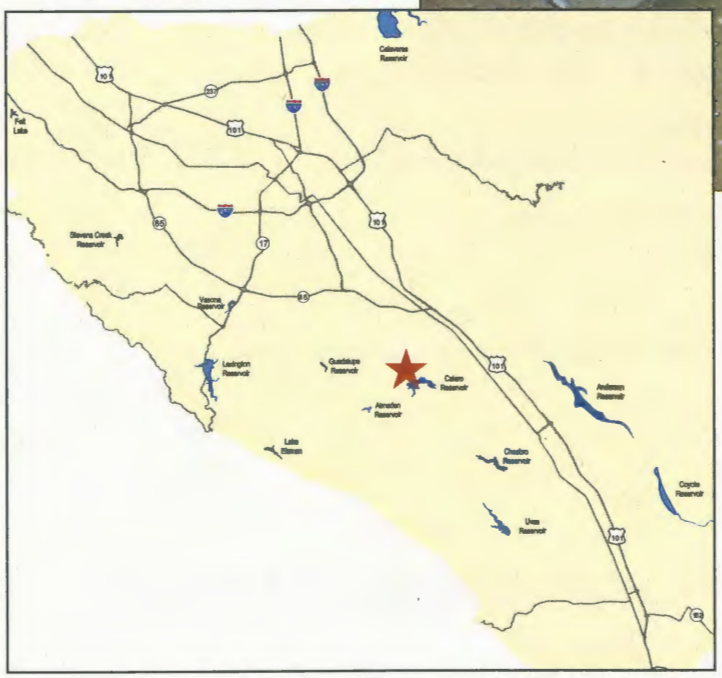
POTENTIAL COST SHARING

None

SCHEDULE



Almaden-Calero Canal, looking upstream at the upstream end of siphon #2.



★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
927201	Almaden-Calero Canal Rehabilitation	376	3,333	408	561	348	600	300	0	0	0	0	0	0	5,926

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
927401

Sponsoring Division:
Water Supply Management

Project Manager:
Sherban Duncan

OVERVIEW

OBJECTIVES:

- Provide adequate water supply for South County.

BENEFITS

- Policy E-1, Article 1.2.2.3 – "Groundwater supplies are sustained."
- Policy E-1, Article 2.1.1.1 – "Mitigation for the adverse impacts of District activities are identified."
- Policy E-1, Article 2.1.1.3 – "Mitigation, enhancements or restorations are implemented when determined appropriate by the Board."

SCOPE OF WORK

- Planning study, design, plans and specs and construction for the San Pedro Recharge Facility (complete).
- Planning study, design, plans and specs and construction for landscaping of the completed recharge facility to comply with obligations identified in the Engineering Report.
- Resolution of the existing agreement with Saratoga Horticultural Research Foundation.

OPERATING BUDGET IMPACTS

Operating impacts will be determined during the landscape-planning phase.

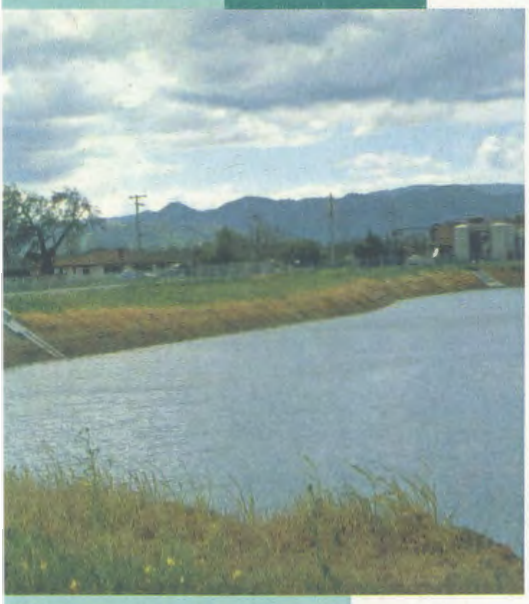
INITIATION AND COMPLETION DATES

September 1991 to December 2006.

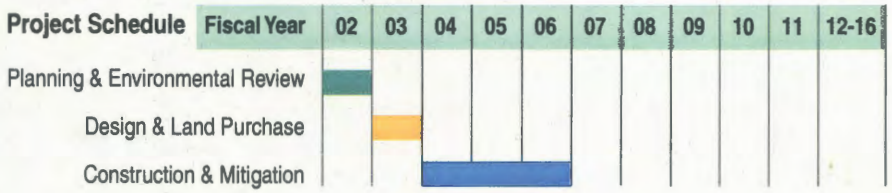
POTENTIAL COST SHARING

Joint recreation use and cost sharing with the City of Morgan Hill currently being investigated.

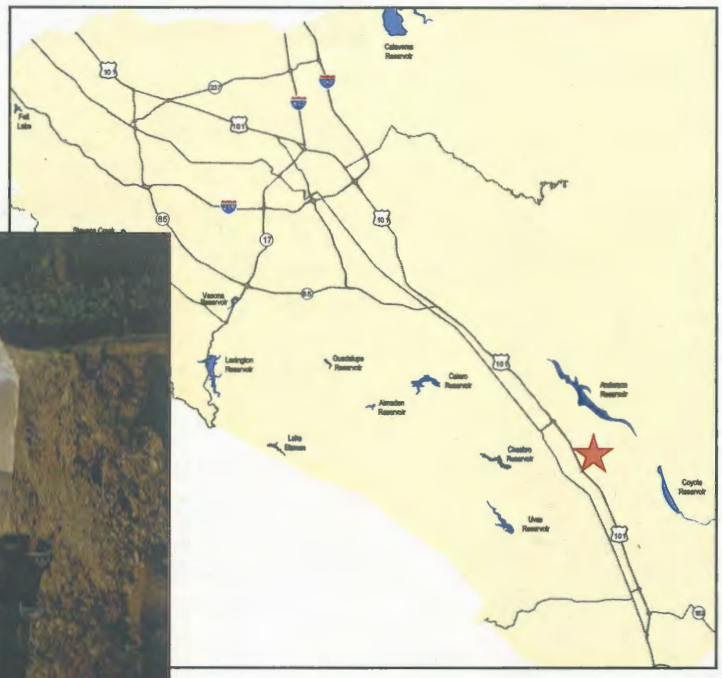
One of the seven percolation ponds at the San Pedro recharge facility.



SCHEDULE



Construction of turnout pipe from the Santa Clara conduit.



Project Location

Initial construction of percolation ponds and flow control vault in 1995.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
927401	San Pedro Recharge Facility	3,988	580	275	111	15	10	10	0	0	0	0	0	0	4,989

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
92C073

Sponsoring Division:
Water Utility Operations

Project Manager:
Roger Narsim

OVERVIEW

OBJECTIVES

- Improve control of low flows from raw water system to Los Gatos Creek.

BENEFITS

- Policy E-1, Article 1.1.4 – "There are a variety of water supply sources."
- Policy E-1, Article 1.2.2.2. – "There is clean, safe water in our creeks and bays."
- Policy E-1, Article 1.2.2.3. – "Groundwater supplies are sustained."

SCOPE OF WORK

- Modify turnout valve 906 to incorporate a low-flow bypass with a flow range of zero to 25 cfs.
- Conduct analysis to determine design alternatives for a low-flow bypass.
- Conduct transient analysis of a low-flow bypass on distribution system.
- Evaluate and select preferred low-flow bypass alternative.
- Prepare engineer's report, CEQA, design and preparation of contract documents.
- Construct the approved project.

OPERATING BUDGET IMPACTS

Operating impacts are anticipated from the construction of this project and will be determined during the planning phase.

INITIATION AND COMPLETION DATES

This project schedule is being developed.

POTENTIAL COST SHARING

None

Vault 906 outlet to Los Gatos Creek.

SCHEDULE

Project Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase			Project Schedule is being developed.								
Construction & Mitigation											

Vault 906 access and energy dissipater.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
92C073	Valve 906 Low–Flow Bypass	0	0	0	0	Project cost is being developed.									

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

WATER UTILITY ENTERPRISE
WATER TREATMENT

EXISTING

- Treated Water Pipeline
- Raw Water Pipeline or Canal
- Injection Well
- Recharge Ponds
- Water Treatment Plant
- Pumping Plant
- Hydroelectric Facility
- Recycled Water Facility
- Treated Water Reservoir

PROPOSED

- Treated Water Pipeline
- Raw Water Pipeline or Canal

ABBREVIATIONS

(The agency indicated in parentheses owns the facility)

DWR	State Department of Water Resources
SFWD	San Francisco Water Department
SCRWA	South County Regional Wastewater Authority
SCVWD	Santa Clara Valley Water District
USBR	U.S. Bureau of Reclamation
PPWD	Pacheco Pass Water District
WTP	Water Treatment Plant
City	City-owned Facility
SJWC	San Jose Water Company

Santa Clara Valley Water District

WATER TREATMENT

DESCRIPTION

The Water Treatment Cost Center contains all the anticipated expenditures, including capital investments, related to the treatment of raw water and production of high-quality drinking water. The infrastructure includes the three treatment plants, Rinconada Treatment Plant (RWTP), Penitencia Treatment Plant (PWTP), and Santa Teresa Treatment Plant (STWTP). The major functions include water treatment.

CAPITAL IMPROVEMENT PROGRAM

MAJOR CAPITAL PROJECTS—COMPLETED IN THE PAST FIVE YEARS

- STWTP Coating Project, Phase 2
- PWTP Filter Underdrain Replacement
- PWTP Caustic Soda System Upgrade
- PWTP Clearwell Modifications
- PWTP Landscape and Erosion Control

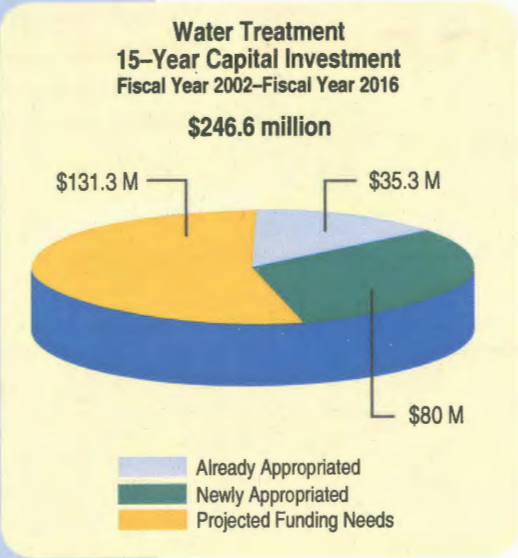
MAJOR CAPITAL PROJECTS—CURRENT

- Treated Water Improvement
- PWTP Facility Improvement, Stage 1, 2, 3, and 4
- STWTP Facility Improvement, Stage 1, 2, and 3
- RWTP Facility Improvement, Stage 1, 2, 3, and 4
- New Water Quality Laboratory

MAJOR CAPITAL PROJECTS—FUTURE

- PWTP Facility Improvement, Stage 5
- STWTP Facility Improvement, Stage 4 and 5
- RWTP Facility Improvement, Stage 5

As stated in the Program Overview, the utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for water treatment infrastructures is complete.



The estimated fifteen-year investments from FY 2002 to FY 2016, to complete the current and future projects are $246.6 million, with $35.3 million already appropriated by the Board of Directors in previous years, $80 million newly appropriated in FY 2002 and 2003, and $131.3 million projected funding needs for future years.

INDEX OF WATER TREATMENT PROJECTS

000204 Treated Water Improvement Project

PWTP Improvement Stage 1
- 932325 PWTP Improvement Stage 1
- 932328 PWTP Clearwell Modifications

PWTP Improvement Stage 2
- 932328 PWTP Treatment Improvement Stage 2
- 93C078 PWTP Plant Water

PWTP Improvement Stage 3
- 932331 PWTP Mechanics Repair Shop/Storage
- 932332 PWTP Zinc Orthophosphate System
- 932333 PWTP Backup Generator System

PWTP Improvement Stage 4
- 932334 PWTP Waste Stream Separation
- 93C082 PWTP Incompatible Materials
- 93C017 PWTP Operations Building Modifications & Expansion
- 93C067 PWTP Visual Screening
- 93C081 PWTP Caustic Soda Storage

PWTP Improvement Stage 5
- 93C056 PWTP Filter Backwash Aid
- 93C077 PWTP Disinfection Dependability
- 93C083 PWTP Air Entrainment Reduction

STWTP Improvement Stage 1
- 932825 STWTP Improvement Stage 1

STWTP Improvement Stage 2
- 932828 STWTP Treatment Improvement Stage 2
- 932831 STWTP Filter Backwash Air Entrainment Reduction

STWTP Improvement Stage 3
- 932829 STWTP Backup Disinfection
- 932830 STWTP Incompatible Materials

STWTP Improvement Stage 4
- 93C062 STWTP Local Backwash Control
- 93C065 STWTP Visual Screening

STWTP Improvement Stage 5
- 93C058 STWTP Filter Backwash Aid
- 93C064 STWTP Disinfection Dependability

RWTP Improvement Stage 1
- 932925 RWTP Improvement Stage 1

RWTP Improvement Stage 2
- 932928 RWTP Treatment Improvement Stage 2
- 932930 RWTP Clarifier Sludge Cleanouts
- 932932 RWTP Filter Valve Replacement (Phase I)
- 932936 RWTP Filter Basin Rehabilitation

RWTP Improvement Stage 3
- 932929 RWTP Zinc Orthophosphate System
- 932931 RWTP Backup Disinfection
- 932933 RWTP Plant Water System
- 932935 RWTP Backup Generator System

RWTP Improvement Stage 4
- 932937 RWTP Waste Stream Separation
- 93C059 RWTP Upflow Clarifier Inlet Valves
- 93C066 RWTP Visual Screening
- 93C080 RWTP Caustic Soda Storage
- 93C084 RWTP Filter Valve Replacement (Phase 2)

RWTP Improvement Stage 5
- 93C057 RWTP Filter Backwash Aid
- 93C063 RWTP Disinfection Dependability
- 93C085 RWTP Chemical Storage
- 93C086 RWTP Building Modifications

934003 New Water Quality Laboratory

SCHEDULE AND COST Current & Future Capital Projects

(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
000204	Treated Water Improvement	10,126	945	479	486	567	592	618	515	510	498	472	340	0	16,147
	PWTP Improvement Stage 1	29,834	1,605	1,827	208	0	0	0	0	0	0	0	0	0	33,474
	PWTP Improvement Stage 2	8,545	6,396	708	14,318	13,141	736	302	195	0	0	0	0	0	44,341
	PWTP Improvement Stage 3	65	283	827	877	3,101	227	4	0	0	0	0	0	0	5,384
	PWTP Improvement Stage 4	0	0	0	91	535	1,047	595	188	0	0	0	0	0	2,456
	PWTP Improvement Stage 5	0	0	0	0	0	0	1,442	6,961	287	394	0	0	0	9,083
932825	STWTP Improvement Stage 1	3,497	167	257	29	0	0	0	0	0	0	0	0	0	3,950
	STWTP Improvement Stage 2	10,596	7,932	887	17,813	16,295	913	374	242	0	0	0	0	0	55,051
	STWTP Improvement Stage 3	0	0	1,138	731	4,706	887	81	0	0	0	0	0	0	7,543
	STWTP Improvement Stage 4	0	0	0	0	0	29	131	363	0	0	0	0	0	523
	STWTP Improvement Stage 5	0	0	0	0	0	0	2,008	10,552	417	417	0	0	0	13,394
932925	RWTP Improvement Stage 1	6,644	317	488	56	0	0	0	0	0	0	0	0	0	7,505
	RWTP Improvement Stage 2	15,039	11,258	1,760	25,458	25,308	1,323	571	343	0	0	0	0	0	81,060
	RWTP Improvement Stage 3	0	0	2,618	8,540	6,686	134	0	0	0	0	0	0	0	17,979
	RWTP Improvement Stage 4	0	0		39	1,885	267	550	3	0	0	0	0	0	2,744
	RWTP Improvement Stage 5	0	0	0	0	0	0	2,193	12,089	480	480	0	0	0	15,243
934003	New Water Quality Lab	2,662	6,447	180	148	166	0	0	0	0	0	0	0	0	9,603
	Total	**87,007**	**35,349**	**11,169**	**68,795**	**72,390**	**6,155**	**8,869**	**31,451**	**1,694**	**1,789**	**472**	**340**	**0**	**325,480**
	Total (with inflation)	**87,007**	**35,349**	**11,169**	**68,795**	**74,563**	**6,530**	**9,691**	**35,398**	**1,964**	**2,136**	**581**	**431**	**0**	**333,614**
	15-Yr Investment		**35,349**	**79,964**		**131,294**									**246,607**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

Project Number:
000204

Sponsoring Division:
Water Utility Operations

Project Manager:
Sandy Oblonsky

OVERVIEW

OBJECTIVES

- Protect public health and safety by ensuring that the District's three plants comply with new and forthcoming water quality regulations proposed by the U.S. Environmental Protection Agency (EPA), and the corresponding State Department of Health Services (DHS) requirements.
- Improve taste and odor and other water quality characteristics.
- Enhancement of health, safety and reliability of the three treatment plants.
- Provide for coordinated efforts for implementation projects to accomplish improvements in an efficient and cost effective manner.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Subarticle 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner.

SCOPE OF WORK

This serves as the umbrella project to provide guidance to the design/construction projects resulting from the adopted recommendations for treatment plant modifications. This project will continue to monitor regulatory and technological developments, and to conduct pilot and plant-scale testing.

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

July 1991 to July 2010.

POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

This project encompasses the water quality planning activities of the Water Treatment Improvement Project, including regulatory and process research and pilot- and plant-scale testing.

Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
000204	Treated Water Improvement Project	10,126	945	479	486	567	592	618	515	510	498	472	340	0	16,147

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932320, 932325

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify the Penitencia Water Treatment Plant to comply with the disinfectant/ disinfection by-products rule and interim enhanced surface water treatment rule, while maintaining a safe and reliable system, and distribute aesthetically pleasing water to our customers.
- Implement water treatment improvements that meet anticipated drinking water quality regulations.
- Control taste and odor and other water quality characteristics.
- Improve reliability, flexibility and safety.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – " The water supply is reliable to meet current demands."

SCOPE OF WORK

Water Treatment Improvement Stage 1 is in the construction phase. The construction phase includes: Project Management, Construction Contract Administration, and Construction Inspection, Engineer & Technical Support, Operations Training, On Line Manual, Start-up & Testing, PWTP Start-up and Water Quality Recording/Reporting Modifications.

This work is being accomplished in the following jobs:
932325 PWTP Improvement
932320 PWTP Clearwell Modifications

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

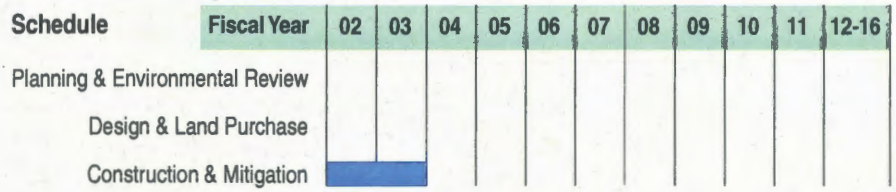
INITIATION AND COMPLETION DATES

1997 to October 2002

POTENTIAL COST SHARING

None

SCHEDULE



Reconstruction of process basins

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932325	PWTP Improvement Stage 1	24,827	1,185	1,825	208	0	0	0	0	0	0	0	0	0	28,045
932320	PWTP Clearwell Modifications	5,007	420	2	0	0	0	0	0	0	0	0	0	0	5,429
Total		29,834	1,605	1,827	208	0	0	0	0	0	0	0	0	0	33,474

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932328, 93C078

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Improve treated water quality and ensure that all applicable water quality regulations are met or exceeded.
- Improve the reliability of water treatment plants by upgrading existing major treatment process systems to provide increased resistance to the effects of seismic and landslide events.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – " The water supply is reliable to meet current demands."
- Policy E-1, Article 1.1.3 – " The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

SCOPE OF WORK

Water Treatment Improvement Stage 2 provides for design and construction of improvements recommended in the Engineer's report as adopted by the District Board of Directors, including design, preparation of plans and specifications, and construction management efforts.

This work is being accomplished by the following jobs:
932328 PWTP Improvement
93C078 PWTP Plant Water

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

INITIATION AND COMPLETION DATES

1997 to June 2007

POTENTIAL COST SHARING

None

SCHEDULE

Conversion to ozone for primary disinfection rathen than using chlorine will include installing ozone generation units such as this at Penitencia Water Treatment Plant.

Ozone generators, to convert ozone for primary disinfection rather than using chlorine. Similar generators will be installed at each of the three Water Treatment Plants.

Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932328	PWTP Improvement Stage 2	8,545	6,396	708	14,318	13,141	736	302	195	0	0	0	0	0	44,341
93C078	PWTP Plant Water	0	0	0	0	Project cost is being developed.									
Total		8,545	6,396	708	14,318	13,141	736	302	195	0	0	0	0	0	44,341

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932331, 932332, 931333

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for:

- providing a new mechanic repair shop at PWTP.
- providing a permanent zinc orthophosphate system to replace the temporary system at PWTP.
- replacing the existing power generation system at PWTP to provide a reliable and safe source of backup power to meet current and future demands.

This work is being accomplished by the following jobs:
932331 PWTP Mechanics Repair Shop/Storage
932332 PWTP Zinc Orthophosphate System
932333 PWTP Backup Generator System

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

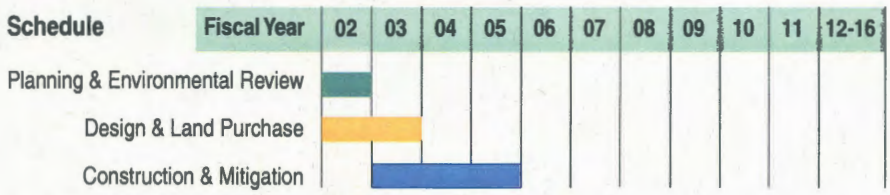
INITIATION AND COMPLETION DATES

July 2001 to July 2005

POTENTIAL COST SHARING

None

SCHEDULE



PWTP Existing, Temporary Zinc Orthophosphate System

Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932331	PWTP Mech Repair Shop/Storage	65	283	460	132	1,126	227	4	0	0	0	0	0	0	2,296
932332	PWTP Zinc Othophosphate System	0	0	267	548	185	0	0	0	0	0	0	0	0	1,000
932333	PWTP Backup Generator System	0	0	101	196	1,790	0	0	0	0	0	0	0	0	2,088
Total		65	283	827	877	3,101	227	4	0	0	0	0	0	0	5,384

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932334, 93C017, 93C067, 93C081, 93C082

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.
- Provide a safe and productive environment for employees.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for:

- separating the flow streams entering the washwater recovery ponds to ensure any recovered water from the washwater recovery basins is not contaminated.
- modifying PWTP Operations Building to provide office space, storage space and ADA Compliance.
- complying with Stage 2 mitigation obligations, to screen the new building constructed under Stage 2 improvements with trees and landscaping.
- increasing the storage capacity for the PWTP Caustic Soda System.
- providing adequate separation of incompatible chemical material at PWTP.

This work is being accomplished by the following jobs:
932334 PWTP Waste Stream Separation
93C017 PWTP Operations Building Modifications and Expansion
93C067 PWTP Visual Screening
93C081 PWTP Caustic Soda Storage
93C082 PWTP Incompatible Materials

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

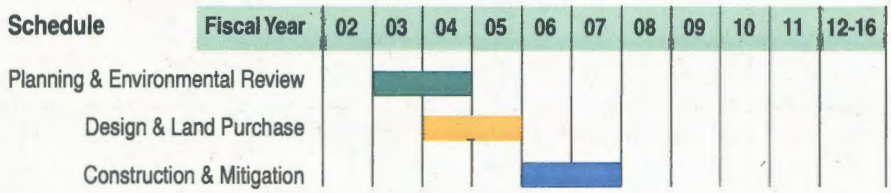
INITIATION AND COMPLETION DATES

July 2002 to July 2007

POTENTIAL COST SHARING

None

SCHEDULE



PWTP Washwater Recovery Ponds

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932334	PWTP Waste Stream Separation	0	0	0	91	135	60	0	0	0	0	0	0	0	286
93C017	PWTP Operations Building Mods & Expansion	0	0	0	0	400	950	470	185	0	0	0	0	0	2,005
93C067	PWTP Visual Screening	0	0	0	0	0	37	125	3	0	0	0	0	0	165
93C081	PWTP Caustic Soda Storage	0	0	0	0	Project cost is being developed.									
93C082	PWTP Incompatible Materials	0	0	0	0	Project cost is being developed.									
Total		0	0	0	91	535	1,047	595	188	0	0	0	0	0	2,456

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
93C056, 93C077, 93C083

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for:

- modifying pipe and valve to reduce air entrainment in the filter backwash process.
- adding chemical feed pipes, metering pumps at injection points to aid the PWTP filter backwashing process.
- adding the UV disinfection system to provide a complimentary and alternative disinfection process to better enable the District to handle a greater variety of drinking water constituents.

This work is being accomplished by the following jobs:
93C056 PWTP Filter Backwash Aid
93C077 PWTP Disinfection Dependability
93C083 PWTP Air Entrainment Reduction

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

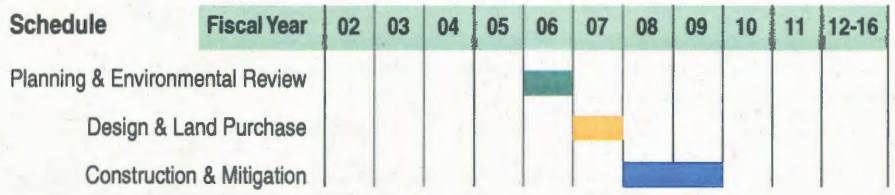
INITIATION AND COMPLETION DATES

July 2005 to June 2009.

POTENTIAL COST SHARING

None

SCHEDULE



Ultra violet disinfection units similar to this unit may be installed at Penetencia Water Treatment Plant.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
93C056	PWTP Filter Backwash Aid	0	0	0	0	0	0	69	348	0	0	0	0	0	417
93C077	PWTP Disinfection Dependability	0	0	0	0	0	0	1,373	6,613	287	394	0	0	0	8,667
93C083	PWTP Air Entrainment Reduction	0	0	0	0	Project cost is being developed.									
Total		0	0	0	0	0	0	1,442	6,961	287	394	0	0	0	9,083

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932825

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify the Santa Teresa Water Treatment Plant to comply with the disinfectant/ disinfection by-products rule and interim enhanced surface water treatment rule, while maintaining a safe and reliable system, and distribute aesthetically pleasing water to our customers.
- Implement water treatment improvements that meet anticipated drinking water quality regulations.
- Control taste and odor and other water quality characteristics.
- Improve reliability, flexibility and safety.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – "The water supply is reliable to meet current demands."

SCOPE OF WORK

Water Treatment Improvement Stage 1 is in the construction phase. The construction phase includes: Project Management, Construction Contract Administration, and Construction Inspection, Engineer & Technical Support, Operations Training, On Line Manual, Start-up & Testing, STWTP Start-up and Water Quality Recording/ Reporting Modifications.

This work is being accomplished in the following job:
932825 STWTP Improvement

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

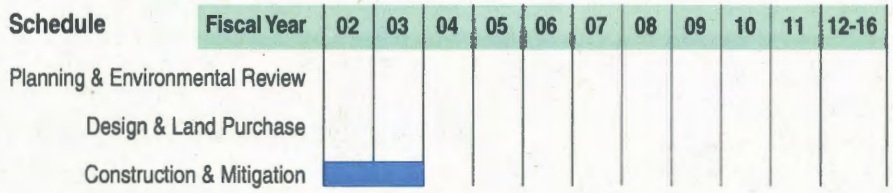
INITIATION AND COMPLETION DATES

1997 to October 2002

POTENTIAL COST SHARING

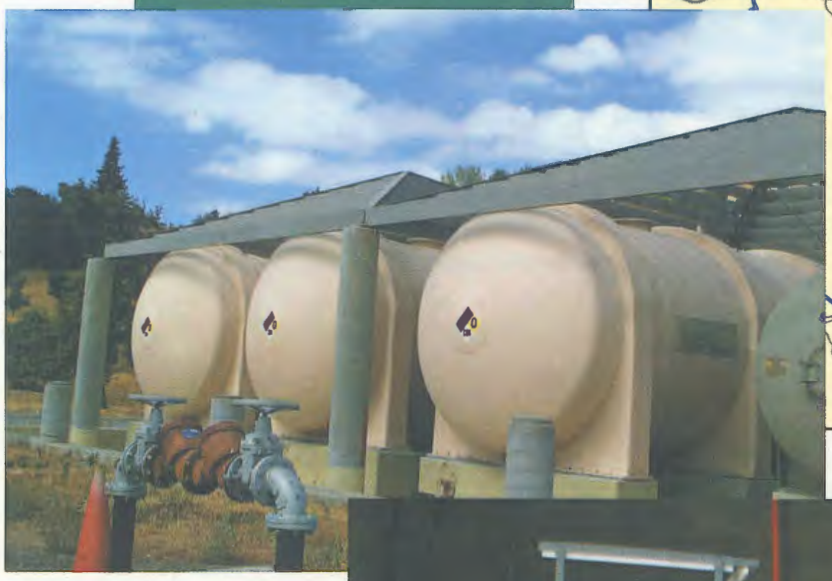
None

SCHEDULE



Project Location

STWTP Alum/Ferric storage area



STWTP Postassium Permanganate facility

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932825	STWTP Improvement	3,497	167	257	29	0	0	0	0	0	0	0	0	0	3,950

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932828, 932831

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Improve treated water quality and ensure that all applicable water quality regulations are met or exceeded.
- Improve the reliability of water treatment plants by upgrading existing major treatment process systems to provide increased resistance to the effects of seismic and landslide events.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – " The water supply is reliable to meet current demands."
- Policy E-1, Article 1.1.3 – " The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

SCOPE OF WORK

Water Treatment Improvement Stage 2 provides for the design and construction of improvements recommended in the Engineer's report as adopted by the District Board of Directors including design, preparation of plans and specifications, and construction management efforts.

This work is being accomplished in the following jobs:
932828 STWTP Treatment Improvement
932831 STWTP Filter Backwash Air Entrainment Reduction

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

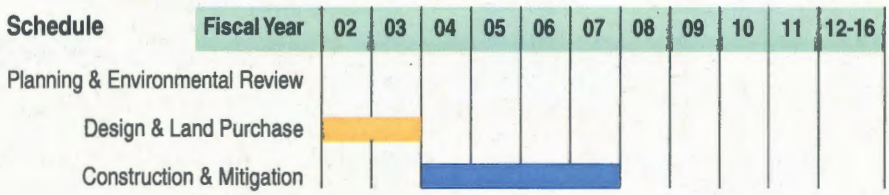
INITIATION AND COMPLETION DATES

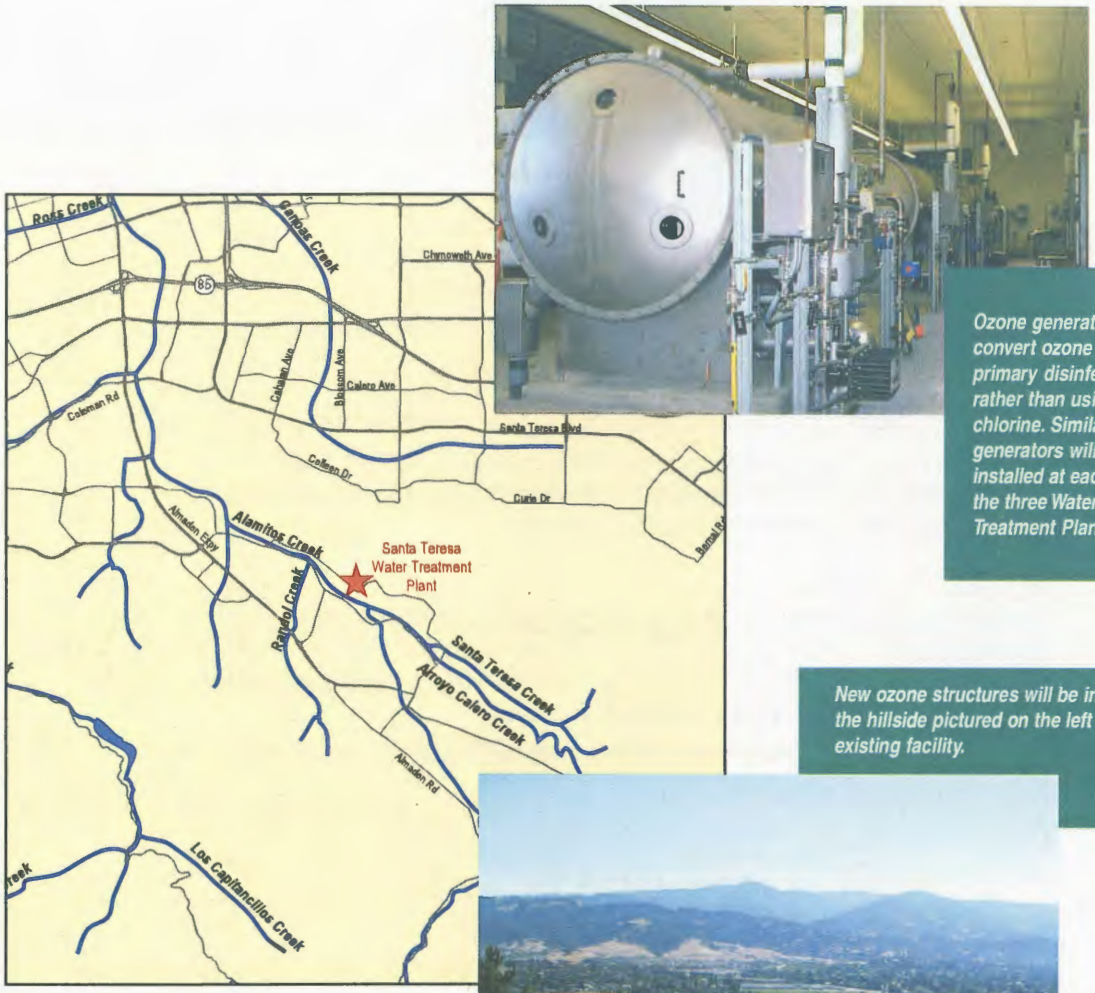
1997 to JuLY 2006

POTENTIAL COST SHARING

None

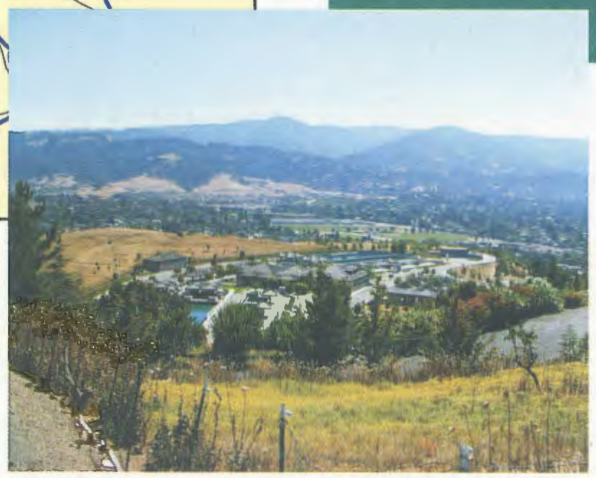
SCHEDULE





Ozone generators, to convert ozone for primary disinfection rather than using chlorine. Similar generators will be installed at each of the three Water Treatment Plants.

New ozone structures will be installed on the hillside pictured on the left of the existing facility.



COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932828	STWTP Treatment Improvement Stage	10,596	7,932	878	17,754	16,295	913	374	242	0	0	0	0	0	54,983
932831	STWTP Filter Backwash Air Entrainment	0	0	8	59	0	0	0	0	0	0	0	0	0	68
Total		10,596	7,932	887	17,813	16,295	913	374	242	0	0	0	0	0	55,051

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932829, 932830

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction for:

- modification of existing STWTP clearwell with post chlorination system and baffles to provide for a backup to primary disinfection with ozone.
- adequate separation of incompatible materials in STWTP process chemical lines, chemical drainage lines and feed room.

This work is being accomplished in the following jobs:
932829 STWTP Backup Disinfection
932830 STWTP Incompatible Materials

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

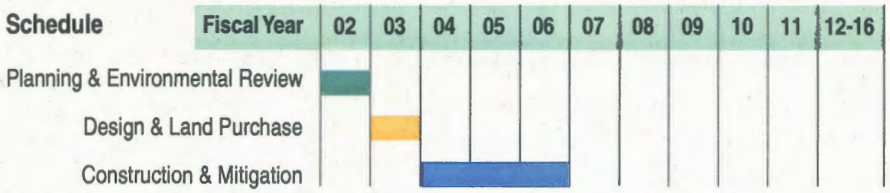
INITIATION AND COMPLETION DATES

2001 to June 2006

POTENTIAL COST SHARING

None

SCHEDULE



Incompatible chemical piping will be separated at the Santa Teresa Water Treatment Plant.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932829	STWTP Backup Disinfection	0	0	1,112	632	4,680	284	81	0	0	0	0	0	0	6,788
932830	STWTP Incompatible Materials	0	0	26	99	26	603	0	0	0	0	0	0	0	755
Total		0	0	1,138	731	4,706	887	81	0	0	0	0	0	0	7,543

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
93C062, 93C065

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction for:

- STWTP local backwash control stations to allow operators to control backwash sequencing at the filters rather than only remotely from the operator's console.
- Complying with Stage 2 mitigation obligations, to screen the new buildings constructed under Stage 2 Improvement with trees and landscaping.

This work is being accomplished in the following jobs:
93C062 STWTP Local Backwash Control
93C065 STWTP Visual Screening

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

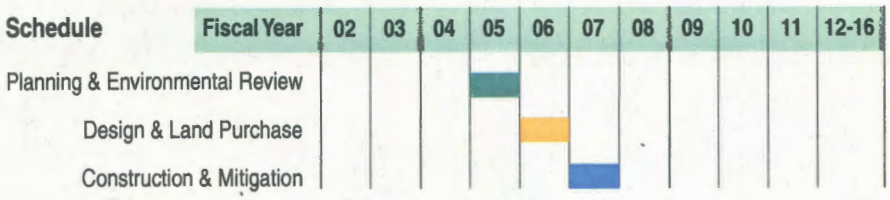
INITIATION AND COMPLETION DATES

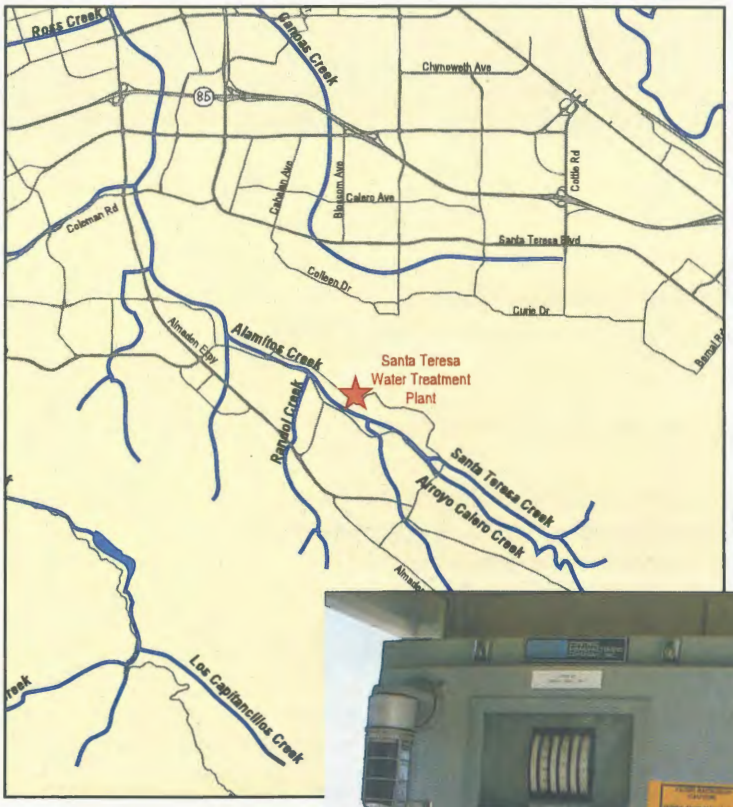
July 2005 to July 2007

POTENTIAL COST SHARING

None

SCHEDULE





★ Project Location

The project will install local filter backwash control stations similar to the one shown below at the Rinconada WTP.

Local controls allow operator to start, stop and adjust the steps in the filter backwash (cleaning) process based upon visual observations of the process.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
93C062	STWTP Local Backwash Control	0	0	0	0	0	0	45	360	0	0	0	0	0	405
93C065	STWTP Visual Screening	0	0	0	0	0	29	87	3	0	0	0	0	0	119
Total		0	0	0	0	0	29	131	363	0	0	0	0	0	523

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
93C058, 93C064

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction management for:

- Adding chemical feed pipes, metering pumps, and injection points to aid the STWTP filter backwashing process.
- Adding a STWTP UV disinfection system to provide a complimentary and alternative disinfection process to better enable the District to handle a greater variety of drinking water constituents.

This work is being accomplished in the following jobs:
93C058 STWTP Filter Backwash Aid
93C064 STWTP Disinfection Dependability

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

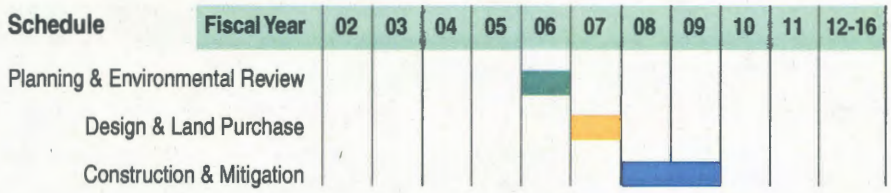
INITIATION AND COMPLETION DATES

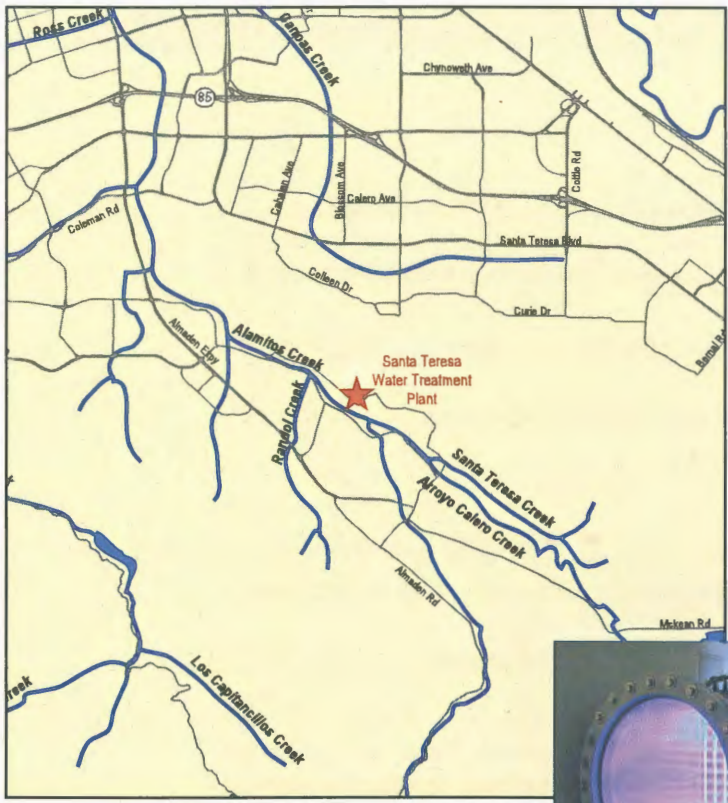
July 2006 to June 2009

POTENTIAL COST SHARING

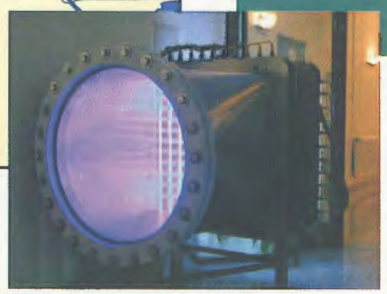
None

SCHEDULE





Project Location



Ultra violet light module for disinfection of drinking water.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	04	05	Projected Funding Needs 06	07	08	09	10	11	12-16	Est. Total Cost
93C058	STWTP Filter Backwash Aid	0	0	0	0	0	0	71	377	0	0	0	0	0	448
93C064	STWTP Disinfection Dependability	0	0	0	0	0	0	1,937	10,175	417	417	0	0	0	12,946
Total		0	0	0	0	0	0	2,008	10,552	417	417	0	0	0	13,394

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932925

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- Modify the Rinconada Water Treatment Plant to comply with the disinfectant/ disinfection by-products rule and interim enhanced surface water treatment rule while maintaining a safe and reliable system and distribute aesthetically pleasing water to our customers.
- Implement water treatment improvements that meet anticipated drinking water quality regulations.
- Control taste and odor and other water quality characteristics.
- Improve reliability, flexibility and safety.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – " The water supply is reliable to meet current demands."

SCOPE OF WORK

Water Treatment Improvement Stage 1 is in the construction phase. The construction phase includes: Project Management, Construction Contract Administration, and Construction Inspection, Engineer & Technical Support, Operations Training, On Line Manual, Start-up & Testing, RWTP Start-up and Water Quality Recording/Reporting Modifications.

This work is being accomplished in the following job:
932925 RWTP Improvement

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

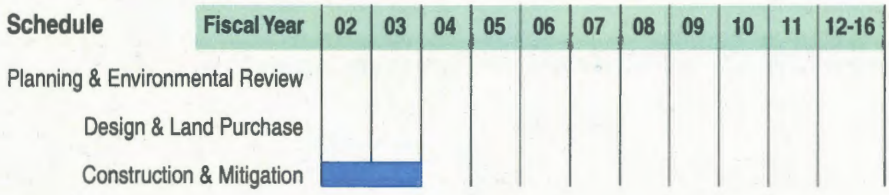
INITIATION AND COMPLETION DATES

1997 to October 2002

POTENTIAL COST SHARING

None

SCHEDULE



Potassium Permanganate and Powdered Activated Carbon buildings are located next to each other, near the upper sludge drying beds at the Rinconada Water Treatment Plant.

Newly constructed building at Rinconada Water Treatment Plant houses Potassium Permanganate for the oxidation process

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932925	RWTP Improvement Stage 1	6,644	317	488	56	0	0	0	0	0	0	0	0	0	7,505

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932928, 932930, 932936

Sponsoring Division:
Water Utility Operations

Project Manager:
Debra Butler

OVERVIEW

OBJECTIVES

- Improve treated water quality and ensure that all applicable water quality regulations are met or exceeded.
- Improve the reliability of water treatment plants by upgrading existing major treatment process systems to provide increased resistance to the effects of seismic and landslide events.
- Increase the capacity of the Rinconada Water Treatment Plant by including the installation of a fifth upflow clarifier basin, mechanism, and associated piping and appurtenances.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – " The water supply is reliable to meet current demands."
- Policy E-1, Article 1.1.3 – " The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."

SCOPE OF WORK

Water Treatment Improvement Stage 2 provides for the design and construction of improvements recommended in the Engineer's report as adopted by the District Board of Directors including design, preparation of plans and specifications, and construction management efforts.

This work is being accomplished in the following jobs:
932928 RWTP Treatment Improvement
932930 RWTP Clarifier Sludge Cleanouts
932932 RWTP Filter Valve Replacement (Phase I)
932936 RWTP Filter Basin Rehabilitation

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

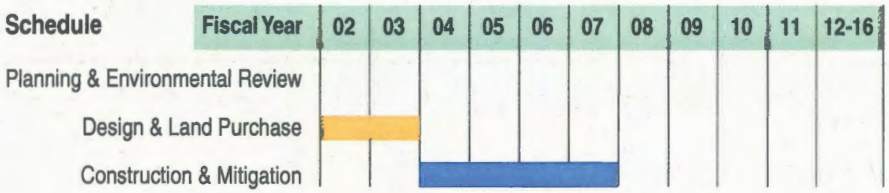
INITIATION AND COMPLETION DATES

1997 to July 2006

POTENTIAL COST SHARING

None

SCHEDULE



Ozone generators, to convert ozone for primary disinfection rather than using chlorine. Similar generators will be installed at each of the three Water Treatment Plants.

RWTP Filter Valve Replacement

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932928	RWTP Treatment Improvement Stage 2	15,039	11,258	1,247	25,199	23,128	1,296	531	343	0	0	0	0	0	78,040
932930	RWTP Clarifier Sludge Cleanouts	0	0	5	0	89	2	2	0	0	0	0	0	0	97
932932	RWTP Filter Valve Replacement (Phase 1)	0	0	339	0	0	0	0	0	0	0	0	0	0	339
932936	RWTP Filter Basin Rehabilitation	0	0	170	260	2,091	25	38	0	0	0	0	0	0	2,583
Total		15,039	11,258	1,760	25,458	25,308	1,323	571	343	0	0	0	0	0	81,060

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932929, 932931, 932933, 932935

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for:

- providing a permanent zinc orthophosphate system to replace the temporary system at RWTP.
- modifying existing RWTP reservoir with post chlorination system baffles to provide a backup to primary disinfection with ozone.
- providing a reliable potable water system at RWTP with appropriate reserve capacity to meet the current and future demands.
- replacing the existing power generation system at RWTP to provide a reliable and safe source of backup power to meet current and future demands.

This work is being accomplished in the following jobs:
932929 RWTP Zinc Orthophosphate System
932931 RTWP Backup Disinfection
932933 RTWP Plant Water System
932935 RTWP Backup Generator System

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

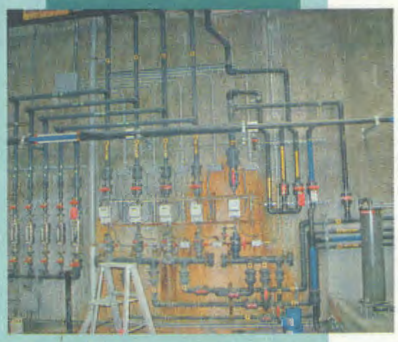
INITIATION AND COMPLETION DATES

July 2001 to July 2006

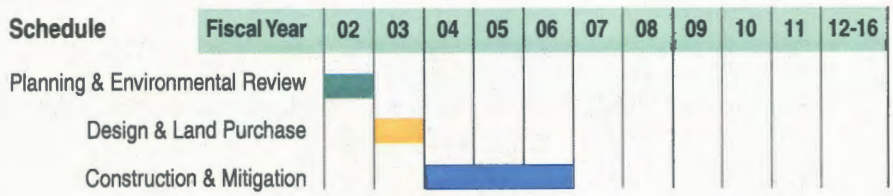
POTENTIAL COST SHARING

None

RWTP Zinc Orthophosphate System



SCHEDULE



Replace/upgrade the plant water system at Rinconada Water Treatment Plant to meet fire code and Operations requirements.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932929	RWTP Zinc Orthophosphate System	0	0	410	1,275	215	0	0	0	0	0	0	0	0	1,900
932931	RWTP Backup Disinfection	0	0	1,440	6,532	491	109	0	0	0	0	0	0	0	8,572
932933	RWTP Plant Water System	0	0	666	294	2,490	25	0	0	0	0	0	0	0	3,475
932935	RWTP Backup Generator System	0	0	102	440	3,490	0	0	0	0	0	0	0	0	4,031
Total		0	0	2,618	8,540	6,686	134	0	0	0	0	0	0	0	17,979

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
932937, 93C059, 93C066, 93C080, 93C084

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes planning, design, preparation of construction documents, and construction for:

- separating the flow streams entering the washwater recovery ponds to ensure any recovered water from the washwater recovery basins is not contaminated.
- Replacing and upgrading the four manually controlled upflow inlet valves and actuators to provide for electrically actuated remote control from the RWTP operations control center.
- Planting trees and landscaping at RWTP to comply with the mitigation obligations for RWTP Improvement Stage 2.
- Increasing the storage capacity for the RWTP Caustic Soda System.
- Reconditioning or replacing the existing filter valves/Actuator.

This work is being accomplished in the following jobs:
932937 RWTP Waste Stream Separation
93C059 RWTP Upflow Clarifier Inlet Valves
93C066 RWTP Visual Screening
93C080 PWTP Caustic Soda Storage
93C084 RWTP Filter Valve Replacement (Phase 2)

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

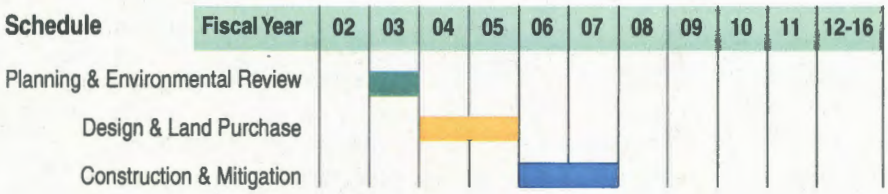
INITIATION AND COMPLETION DATES

July 2002 to June 2007

POTENTIAL COST SHARING

None

SCHEDULE



Waste streams that can upset the treatment process will be diverted from the washwater recovery ponds.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
932937	RWTP Waste Stream Separation	0	0	0	39	135	60	0	0	0	0	0	0	0	234
93C059	RWTP Upflow Clarifier Inlet Valves & Expansion	0	0	0	0	0	5	341	0	0	0	0	0	0	346
93C066	RWTP Visual Screening	0	0	0	0	0	52	209	3	0	0	0	0	0	264
93C080	RWTP Caustic Soda Storage	0	0	0	0	Project cost is being developed.									
93C084	RWTP Filter Valve Replacement (Phase 2)	0	0	0	0	1,750	150	0	0	0	0	0	0	0	1,900
Total		0	0	0	39	1,885	267	550	3	0	0	0	0	0	2,744

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
93C057, 93C063

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Ensure the reliability and integrity of the Utility's infrastructure.
- Facilitate or enhance the Utility's abilities to produce goods and deliver services.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." and ". . . 4. Unnecessarily expose the organization, its Board or staff to claims of liability."

SCOPE OF WORK

Work includes the planning, design, preparation of construction documents, and construction for:

- Adding chemical feed pipes, metering pumps and injection points to aid the RWTP filter backwashing process.
- Adding the UV disinfection system to provide a complimentary and alternative disinfection process to better enable the District to handle a greater variety of drinking water constituents.
- Modifying the RWTP chemical storage area to comply with seismic standards.
- Modifying the RWTP building interior to provide a healthy and productive work environment for employees.

This work is being accomplished in the following jobs:
93C057 RWTP Filter Backwash Aid
93C063 RWTP Disinfection Dependability
93C085 RWTP Chemical Storage
93C086 RWTP Building Modification

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

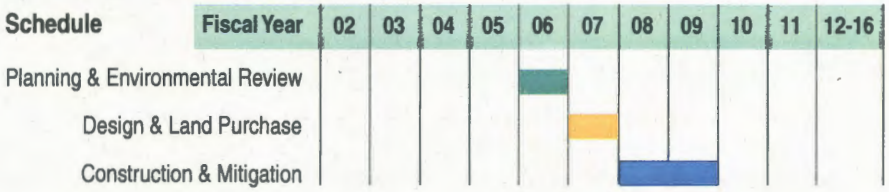
INITIATION AND COMPLETION DATES

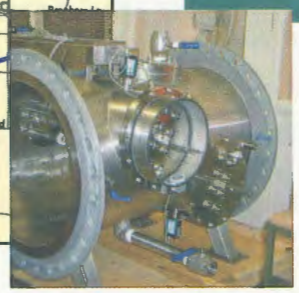
July 2005 to June 2009.

POTENTIAL COST SHARING

None

SCHEDULE





Ultra violet light disinfection units such as this may be installed at Rinconada Water Tretament Plant.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
93C057	RWTP Filter Backwash Aid	0	0	0	0	0	0	68	338	0	0	0	0	0	406
93C063	RWTP Disinfection Dependability	0	0	0	0	0	0	2,125	11,751	480	480	0	0	0	14,837
93C085	RWTP Chemical Storage	0	0	0	0	Project cost is being developed.									
93C086	RWTP Building Modifications	0	0	0	0	Project cost is being developed.									
Total		0	0	0	0	0	0	2,193	12,089	480	480	0	0	0	15,243

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
934003

Sponsoring Division:
Water Utility Operations

Project Manager:
Sherban Duncan

OVERVIEW

OBJECTIVES

- Select a site that will meet the building program needs.
- Design a facility that is in compliance with EPA guidelines and other applicable standards.
- Construct a laboratory that will meet the projected needs of the District for a 20-year horizon and fulfill the objectives approved by the Board on March 17, 1998:
  a. Monitor Treated Water to Ensure Standards are Met
  b. Monitor Within Treatment Plant for Process Control
  c. Monitor Sources Waters (surface water)
  d. Perform Specialized Studies Related to Surface Water Treatment
  e. Monitor Other District Water Quality Programs (Groundwater Source Protection, Nonpoint Source)
  f. Monitor Solids Such as Treatment Plant Sludge and Soils
  g. Analyze Treated and Source Water Samples for Water Retailers
  h. Analyze Water Samples for the Public (private well owners, etc.)

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."

SCOPE OF WORK

This project will rely primarily on consultant services to produce the following products:

- Engineer's Report that includes a laboratory building program that meets the objectives approved by the Board and includes a site feasibility study.
- CEQA documentation
- Design documents
- Construction Bid Packages
- Construction of a new laboratory

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

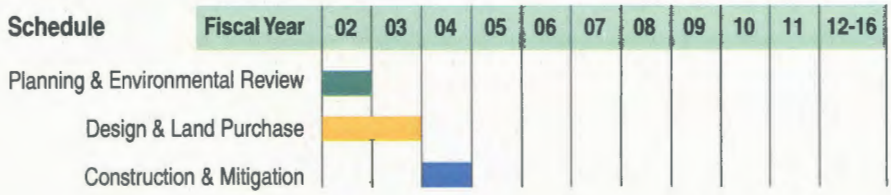
August 2000 to June 2004

POTENTIAL COST SHARING

None

Monitoring Treated water to ensure standards are met. A new laboratory will be constructed to meet future needs.

SCHEDULE



COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
934003	New Water Quality Laboratory	2,662	6,447	180	148	166	0	0	0	0	0	0	0	0	9,603

*Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

WATER UTILITY ENTERPRISE TREATED WATER TRANSMISSION & DISTRIBUTION

EXISTING

- Treated Water Pipeline
- Raw Water Pipeline or Canal
- Injection Well
- Recharge Ponds
- Water Treatment Plant
- Pumping Plant
- Hydroelectric Facility
- Recycled Water Facility
- Treated Water Reservoir

PROPOSED

- Treated Water Pipeline
- Raw Water Pipeline or Canal

ABBREVIATIONS

(The agency indicated in parentheses owns the facility)

DWR	State Department of Water Resources
SFWD	San Francisco Water Department
SCRWA	South County Regional Wastewater Authority
SCVWD	Santa Clara Valley Water District
USBR	U.S. Bureau of Reclamation
PPWD	Pacheco Pass Water District
WTP	Water Treatment Plant
City	City-owned Facility
SJWC	San Jose Water Company

Santa Clara Valley Water District

TREATED WATER TRANSMISSION & DISTRIBUTION

DESCRIPTION

The Treated Water Transmission and Distribution Cost Center contains all the anticipated expenditures, including capital investments, related to the distribution of treated water to District's customers, the retailers of Santa Clara County. The infrastructure includes treated water reservoirs, pumping plants, pipelines, injection well, and turnouts. The major services include treated water transportation and delivery, and operation of San Francisco Water Department Intertie facility.

CAPITAL IMPROVEMENT PROGRAM

MAJOR CAPITAL PROJECTS—COMPLETED IN THE PAST FIVE YEARS

- Milpitas Pipeline Relocation
- San Tomas Injection Well

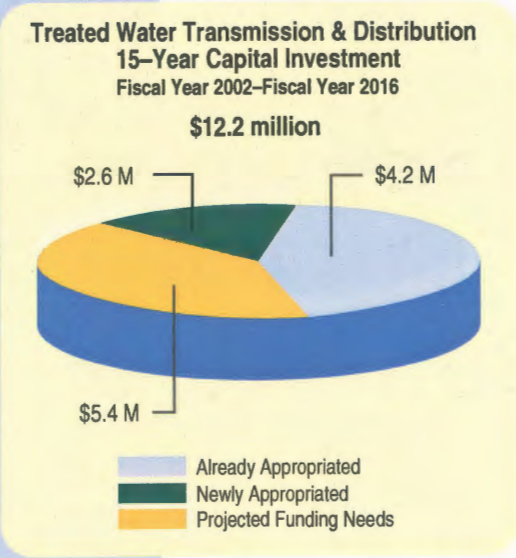
MAJOR CAPITAL PROJECTS—CURRENT

- Treated Water T&D Instrument Upgrade
- Rinconada Reservoir Roof Rehabilitation
- Snell Pipeline Cathodic Protection
- SCVWD/SFWD Intertie
- Penitencia Delivery Main Modulating Valve

MAJOR CAPITAL PROJECTS—FUTURE

- Treated Water Air and Vacuum Valve

As stated in the Program Overview, the utility plans to conduct a comprehensive evaluation of its infrastructures and develop an Asset Management Plan. The list of future projects will be fully developed after the asset management plan for treated water transmission and distribution infrastructures is complete.



The estimated fifteen-year investments for FY 2002 to FY 2016, to complete the current and future projects, are $12.2 million, with $4.2 million already appropriated by the Board of Directors in previous years, $2.6 million newly appropriated in FY 2002 and 2003, and $5.4 million projected funding needs for future years.

SCHEDULE AND COST

Current & Future Capital Projects
(in thousands $, present worth)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
940803	Treated Water Transmission and Distribution Instrument Upgrade	1,188	478	224	15	0	0	0	0	0	0	0	0	0	1,905
941901	SCVWD SFWD Interie	3,024	342	141	55	0	0	0	0	0	0	0	0	0	3,562
943801	Penitencia Delivery Main Modulating Valve	15	2,107	583	316	0	0	0	0	0	0	0	0	0	3,021
945002	Rinconada Reservoir Roof Rehabilitation	152	1,187	440	636	15	0	0	0	0	0	0	0	0	2,429
948402	Snell Pipeline Cathodic Protection	0	144	47	122	60	0	0	0	0	0	0	0	0	372
94C011	DHS Compliance Treated Water	0	0	0	0	285	1,150	2,903	554	0	0	0	0	0	4,892
	Total	**4,380**	**4,258**	**1,433**	**1,144**	**360**	**1,150**	**2,903**	**554**	**0**	**0**	**0**	**0**	**0**	**16,181**
	Total (with inflation)	**4,380**	**4,258**	**1,433**	**1,144**	**371**	**1,220**	**3,172**	**624**	**0**	**0**	**0**	**0**	**0**	**16,602**
	15-Yr Investment		**4,258**	**2,577**					**5,387**						**12,222**

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001.

Planning

Design

Construction

Project Number:
940803

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- Ensure safe, reliable, and efficient operation and monitoring of all treated water transmission and distribution facilities on a real time basis.

BENEFITS

- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides hardware and software improvements to all controls sites of the treated water transmission and distribution system.

OPERATING BUDGET IMPACTS

No operating budget impacts are anticipated from the construction of this project.

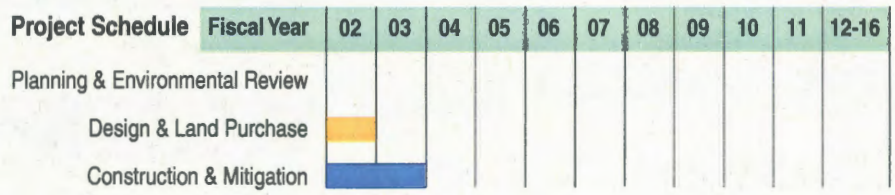
INITIATION AND COMPLETION DATES

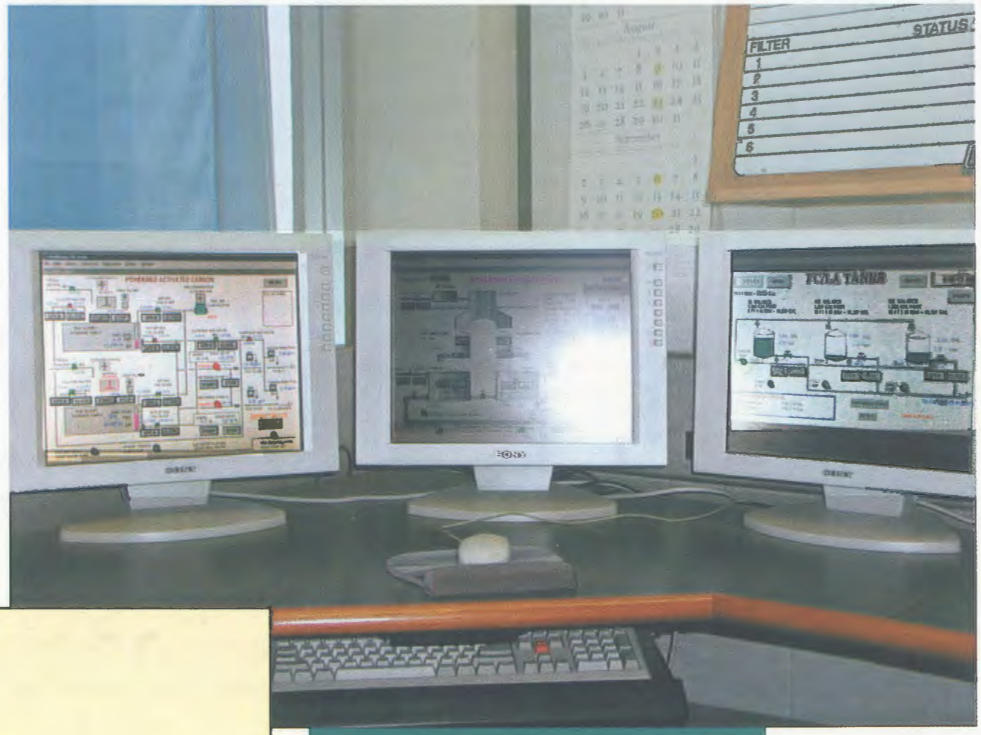
July 1995 to June 2003.

POTENTIAL COST SHARING

None

SCHEDULE





Supervisory Control and Data Acquisition view nodes for Treated Water Operations.

Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
940803	Treated Water Instrument Upgrade (Westside)	1,188	478	224	15	0	0	0	0	0	0	0	0	0	1,905

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
941901

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- To provide a connection between the Milpitas Pipeline and San Francisco Water Department's Bay Division Pipelines 3 and 4 to enable the exchange of treated water between the two agencies in the event of a major facility failure or other outage in either system, both planned and unplanned.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."
- Policy E-1, Article 1.1.1 – "The water supply meets or exceeds all applicable water quality regulatory standards in a cost-effective manner."
- Policy E-1, Article 1.1.2 – "The water supply is reliable to meet current demands."
- Policy E-1, Article 1.1.3 – "The water supply is reliable to meet future demands as identified in the District's Integrated Water Resource Plan (IWRP) process."
- Policy E-1, Article 1.1.4 – "There are a variety of water supply sources."

SCOPE OF WORK

The project is in the construction phase. Work includes technical support and review of SFWD's design, preparation of construction documents, programming of the District's SCADA at PWTP, and start-up process for the pump station.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated and will be determined in the near future.

INITIATION AND COMPLETION DATES

1994 – June 2003

POTENTIAL COST SHARING

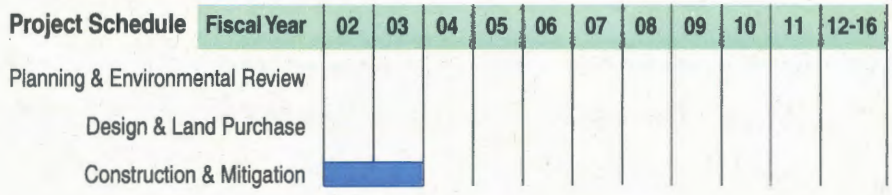
Yes

Partnering Agencies: San Francisco Water Department

Cost Sharing Formula: The cost-sharing formula is 50/50 with consideration for costs already spent by the District on upsizing the Milpitas Pipeline. A cost-share analysis will be done at the end of construction and any necessary adjustments will be made at that time.

Reimbursement Schedule: Undetermined.

SCHEDULE



Project Location

Site is under construction.

COST
(in thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated	Projected Funding Needs									Est. Total Cost
		91-01	01	02	03	04	05	06	07	08	09	10	11	12-16	
941901	SCVWD SFWD Interie	3,024	342	141	55	0	0	0	0	0	0	0	0	0	3,562

* Estimated as of 5/8/01. Encumbrances are included in Estimated Actuals FY1991-2001. Amount in Cost Chart is District's share of the project only.

Project Number:
943801

Sponsoring Division:
Water Utility Operations

Project Manager:
Donna Collins

OVERVIEW

OBJECTIVES

- The objective of this project is to reduce and control pressure of the Penitencia Delivery Main to
  1. allow for the delivery of 40 MGD to San Francisco Water Department through the Hetch-Hetchy Intertie.
  2. supplement turnouts, which are normally supplied with water from PWTP, with flow from STWTP.
- Provide the District with the operational flexibility to meet future customer supplies as system demands increase.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy, clean drinking water."

SCOPE OF WORK

This project provides for the planning, design, and construction of a line valve, vault, and appurtenances on the Penitencia Delivery Main.

OPERATING BUDGET IMPACTS

Operating budget impacts are anticipated to be negligible, but will be determined in the near future.

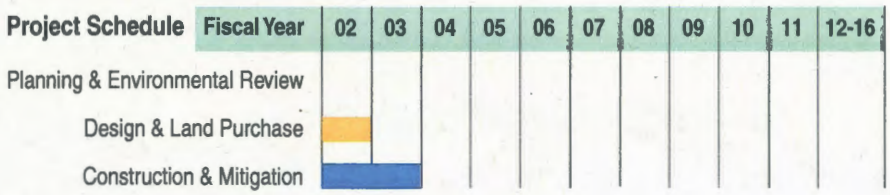
INITIATION AND COMPLETION DATES

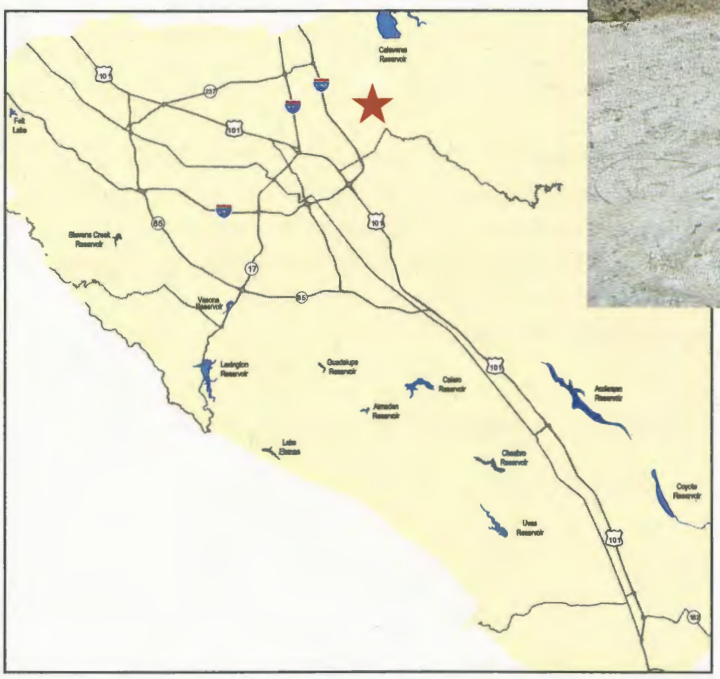
January 2001 to April 2003

POTENTIAL COST SHARING

None

SCHEDULE





Proposed site location.

★ Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual*	Balance Remain*	Newly Appropriated		Projected Funding Needs									Est. Total Cost
		91-01	01	02	03	04	05	06	07	08	09	10	11	12-16	
943801	Penitencia Delivery Main Modulating Valve	15	2,107	583	316	0	0	0	0	0	0	0	0	0	3,021

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
945002

Sponsoring Division:
Water Utility Operations

Project Manager:
Tim Nguyen

OVERVIEW

OBJECTIVES

- Provide protection against rainwater and debris entering the treated water stored in the reservoir.
- Retrofit the reservoir roof structure to comply with current seismic design requirements.
- Improve the drainage system to divert runoff away from the reservoir.
- Stabilize the slope embankment adjacent to the reservoir.

Benefits

- Policy E-1, Article 1.1 – "There is reliable supply of healthy, clean drinking water."
- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked." And " . . . 3. Subject plant and equipment to improper wear and tear or insufficient maintenance."

SCOPE OF WORK

This project investigates the current physical condition of the Rinconada reservoir roof structure. It develops and evaluates retrofit alternatives, and based upon the selected alternatives, performs the required work needed to strengthen the roof structure in order to comply with current seismic design requirements. The project is divided into two phases. Phase I is the planning study and includes environmental clearance and development of the alternatives. Phase II is the detailed design, preparation of construction document, and construction phase.

OPERATING BUDGET IMPACTS

No operating budget impacts are anticipated from the construction of this project.

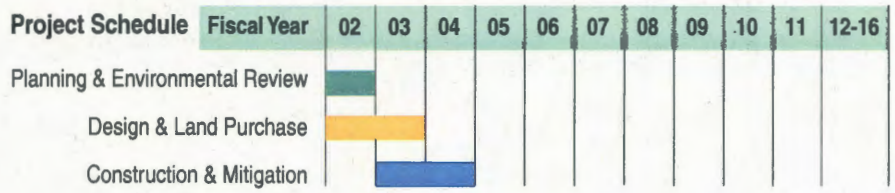
INITIATION AND COMPLETION DATES

February 2000 to August 2003

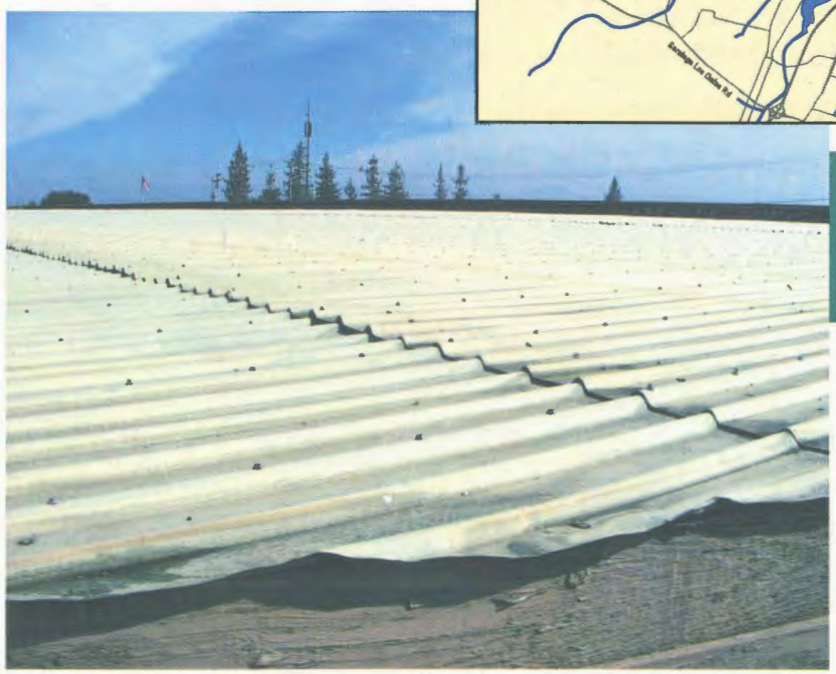
POTENTIAL COST SHARING

None

SCHEDULE



★ Project Location



The Rinconada Water Treatment Plant reservoir's 30-year old corrugated metal deck roof .

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
945002	Rinconada Reservoir Roof Rehabilitation	152	1,187	440	636	15	0	0	0	0	0	0	0	0	2,429

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
948402

Sponsoring Division:
Water Utility Operations

Project Manager:
Stan Kaut

OVERVIEW

OBJECTIVES

- The goal of this project is to protect the Snell Pipeline from external corrosion by designing an active cathodic protection system as field data dictates.

BENEFITS

- Policy EL-1.6 – "The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained, or unnecessarily risked."

SCOPE OF WORK

This project provides funds for the design and construction of an active cathodic protection system on the Snell Pipeline.

OPERATING BUDGET IMPACTS

No operating budget impacts are anticipated from the construction of this project.

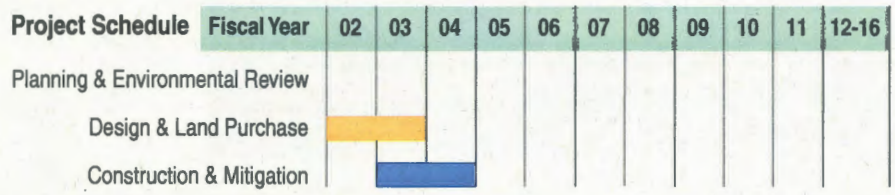
INITIATION AND COMPLETION DATES

July 2000 to June 2004.

POTENTIAL COST SHARING

None

SCHEDULE



Finding pipeline appurtenance.

Project Location

COST
(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	02	Newly Appropriated 03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
948402	Snell Pipeline Cathodic Protection	0	144	47	122	60	0	0	0	0	0	0	0	0	372

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
94C011

Sponsoring Division:
Water Utility Operations

Project Manager:
To be determined

OVERVIEW

OBJECTIVES

- Comply with Title 22 of California Code of Regulations to mitigate potential cross contamination on the treated water distribution pipelines.

BENEFITS

- Policy E-1, Article 1.1 – "There is a reliable supply of healthy clean drinking water."
- Policy EL-1.6 – "Unnecessarily expose the organization, its Board, or staff to claims of liability."

SCOPE OF WORK

The scope of work includes planning, design and construction of modifications to the treated water distribution system to meet the project objectives. It is anticipated that the work will require venting of the air release valves or drainage of the vaults or replacement of failed or corroded equipment such as butterfly valves. Assume procurement over a three-year period and the District will do the installation.

OPERATING BUDGET IMPACTS

Operating budget impacts will be determined during the planning phase.

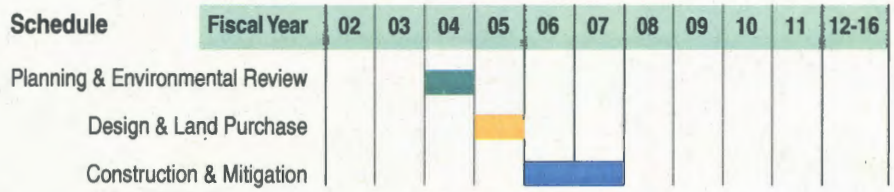
INITIATION AND COMPLETION DATES

July 2003 to June 2007.

POTENTIAL COST SHARING

None

SCHEDULE



COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
94C011	DHS Compliance Treated Water System	0	0	0	0	285	1,150	2,903	554	0	0	0	0	0	4,892

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

WATER UTILITY ENTERPRISE ADMINISTRATION & GENERAL

EXISTING

- Treated Water Pipeline
- Raw Water Pipeline or Canal
- Injection Well
- Recharge Ponds
- Water Treatment Plant
- Pumping Plant
- Hydroelectric Facility
- Recycled Water Facility
- Treated Water Reservoir

PROPOSED

- Treated Water Pipeline
- Raw Water Pipeline or Canal

ABBREVIATIONS

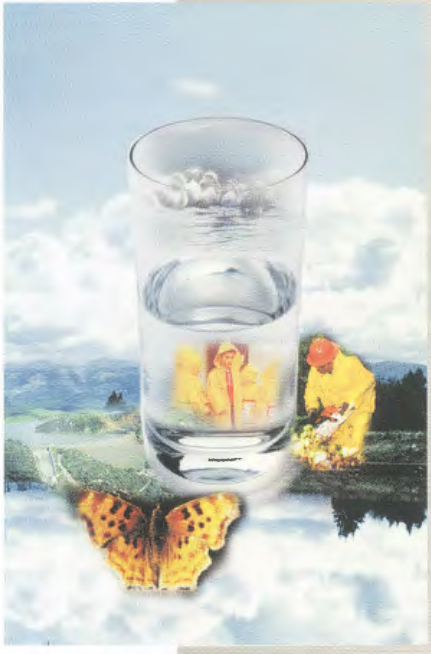
(The agency indicated in parentheses owns the facility)

DWR	State Department of Water Resources
SFWD	San Francisco Water Department
SCRWA	South County Regional Wastewater Authority
SCVWD	Santa Clara Valley Water District
USBR	U.S. Bureau of Reclamation
PPWD	Pacheco Pass Water District
WTP	Water Treatment Plant
City	City-owned Facility
SJWC	San Jose Water Company

Santa Clara Valley Water District

There are no capital projects planned for this cost center.

SERVICE FUNDS



Santa Clara Valley
Water District

Project Number:
700001, 700002

Sponsoring Division:
Technical Services

Project Manager:
Ron Jacobs

OVERVIEW

OBJECTIVES

- To provide new acquisition or upgrades to existing vehicles and equipment in order to accommodate the changing needs of the District.
- To provide replacement acquisitions to the existing fleet according to established replacement criteria of 75,000 miles or 10 years for sedan and light trucks, and 85,000 miles or 10 years for large trucks and diesel vehicles.

BENEFITS

- EL-1.6 – The CEO/GM shall not allow corporate assets to be unprotected, inadequately maintained or unnecessarily risked.

SCOPE OF WORK

These capital projects provide for acquisition of new and replacement vehicles in the District fleet, according to established criteria. This effort is funded from the District Fund through an operating transfer to the following projects:

700001 = New Vehicle Equipment Acquisitions

700002 = Replacement Vehicle Equipment

INITIATION AND COMPLETION DATES

The acquisition of this capital equipment is ongoing.

POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
700001	New Vehicle Equipment Acquisitions	1,045	697	1,168	600	600	600	600	600	600	600	600	600	3,000	11,310
700002	Replacement Vehicle Equipment	4,170	684	1,753	1,233	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	7,500	27,340
Total		5,215	1,381	2,921	1,833	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	10,500	38,650

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

Project Number:
750001, 750002

Sponsoring Division:
Information Management

Project Manager:
Seth Johnson

OVERVIEW

OBJECTIVES

- To provide adequate computing tools for employees to perform their functions in meeting the District mission and goals.

SCOPE OF WORK

These capital projects provide for acquisition and replacement of office computers, Computer equipment, and software for new positions or newly defined requirements for existing positions. This effort is funded in the following projects:

750001 = Office Computers, New Equipment

750002 = Office Computers, Replacement Equipment

OPERATING BUDGET IMPACTS

No operating impacts are anticipated from the construction of this project.

INITIATION AND COMPLETION DATES

The acquisition of this capital equipment is ongoing.

POTENTIAL COST SHARING

None

SCHEDULE

Schedule / Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16
Planning & Environmental Review											
Design & Land Purchase											
Construction & Mitigation											

COST

(in thousands $)

Project	Fiscal Year	Est. Actual* 91-01	Balance Remain* 01	Newly Appropriated 02	03	Projected Funding Needs 04	05	06	07	08	09	10	11	12-16	Est. Total Cost
750001	Office Computers New Equipment	573	8	427	60	30	30	30	30	30	30	30	30	150	1,459
750002	Office Computers Replacement Equipment	959	42	860	700	496	500	500	500	500	500	500	500	2,500	9,056
Total		1,532	50	1,287	760	526	530	530	530	530	530	530	530	2,650	10,515

* Estimated as of 5/8/01. FY01 encumbrances are included in Estimated Actuals FY1991-2001.

Summary of All Estimated Reimbursements

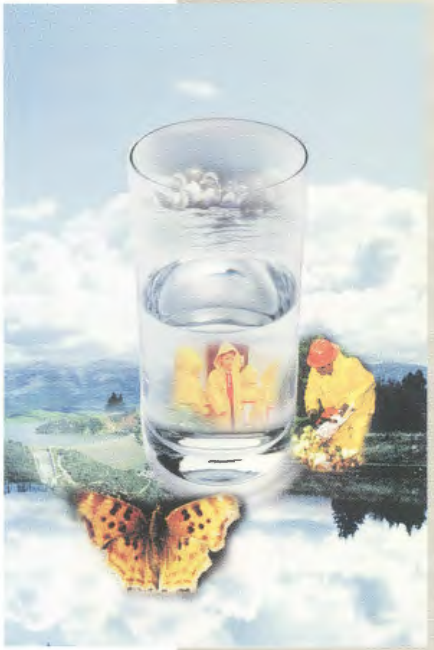
(in thousands $)

Project	Fiscal Year	02	03	04	05	06	07	08	09	10	11	12-16	Est. Total
301513 Guadalupe Rv Downtown		21,800	0	7,000	7,000	6,100	0	0	0	0	0	0	41,900
through 301515		15,800	0	0	0	0	0	0	0	0	0	0	15,800
301525 Guadalupe Creek Restoration		0	5,000	0	0	0	0	0	0	0	0	0	5,000
Total Guadalupe Watershed Reimbursements		**37,600**	**5,000**	**7,000**	**7,000**	**6,100**	**0**	**0**	**0**	**0**	**0**	**0**	**62,700**
402108 Coyote Ck SF Bay to Montague Reimb.		11,100	0	0	0	0	0	0	0	0	0	0	11,100
402120 Coyote Creek at Rockspring		0	0	2,732	0	0	0	0	0	0	0	0	2,732
402601 Lower Silver Ck, McKee-680 (Reach 3)		1,600	0	0	0	0	0	0	0	0	0	0	1,600
403203 Upper Penitencia Creek		0	0	0	0	0	1,939	17,722	6,910	7,118	0	0	33,689
through 403204													
Total Coyote Watershed Reimbursements		**12,700**	**0**	**2,732**	**0**	**0**	**1,939**	**17,722**	**6,910**	**7,118**	**0**	**0**	**49,121**
502801 Lower Llagas		1,660	0	30	0	0	0	0	0	0	0	0	1,690
Total Uvas/Llagas Watershed Reimbursements		**1,500**	**0**	**30**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,690**
26C341 Guadalupe River Upper		0	0	0	500	6,000	7,000	1,500	4,000	0	0	23,000	42,000
through 26C351													
261741 Berryessa Ck, Calaveras-Old Piedmont (Corp)		0	0	7,000	6,000	6,000	0	0	0	0	0	0	19,000
261751 Upper Llagas Ck (Reimbursable)		0	0	1,750	1,750	1,750	1,750	1,750	1,750	0	0	0	10,500
Total Clean Safe Creeks Watershed Reimbursements		**0**	**0**	**8,750**	**8,250**	**13,750**	**8,750**	**3,250**	**5,750**	**0**	**0**	**23,000**	**71,500**
912107 San Luis Bypass and Storage		0	3,338	2,749	5,013	3,700	0	0	0	0	0	0	14,800
Total Water Enterprise–Source of Supply Reimbursements		**0**	**3,338**	**2,749**	**5,013**	**3,700**	**0**	**0**	**0**	**0**	**0**	**0**	**14,800**
922502 Central PL Protect at Route 87		0	212	0	0	0	0	0	0	0	0	0	212
922503 Central PL Mods, Capital Ave. & Berryessa		0	150	0	0	0	0	0	0	0	0	0	150
Total Water Enterprise–Raw Water T & D Reimbursements		**0**	**362**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**362**
Total Reimbursements		**51,960**	**8,700**	**21,261**	**20,263**	**23,550**	**10,689**	**20,972**	**12,660**	**7,118**	**0**	**23,000**	**200,173**

Source of Reimbursement

- State Subventions
- City of San Jose/Redevelopment Agency
- Army Corps of Engineers
- Department of Water Resources
- Valley Transportation Authority

GLOSSARY OF TERMS



Santa Clara Valley
Water District

Ad Valorem Tax A tax based on value (e.g., a property tax).

Appropriation An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

Benefit Assessment Determination of the benefits derived from District activities within particular water sheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds Bonds are a long-term source of debt that provide a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity dates(s), together with periodic interest at a specified rate.

Capital Expenditure Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involves a major expenditure of District resources greater than $50,000. They can be made with regard to tangible and intangible assets.

The general categories of capital expenditures are: Rehabilitation, Major Repairs, Improvements/Betterments/ Upgrades, Replacements, Expansions/ Additions, and Ancillary Expenditures.

Capital Projects Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the lives of assets, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of $50,000.

Certificates of Participation (COPs) A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA California Environmental Quality Act.

CIP Capital Improvement Plan.

Cost Center Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements. The first two digits of a project number identify the cost center.

DWR State Department of Water Resources.

EIR Environmental Impact Report.

Encumbrances Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Enterprise Fund Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private businesses where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis is financed or recovered primarily through user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

Expenditure/ Expense Decreases in net financial resources. Expenditures include current operating expenses requiring the present of future use of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

Fixed Assets Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.

Fund A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

Levy (1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a governmental agency.

Long-Term Debt Debt with a maturity of more than one year after the date of issuance.

Operating Expenditure Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these property components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of under standing operating leverage and structuring service charge rates.

Operations Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight, however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

Projects At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and , at the District, are called Capital or Operating Projects, accordingly. Projects usually, but not always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds Bonds whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

Sponsoring Division Division where a capital project originates.

Santa Clara Valley
Water District

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